SANYO

Colour Television Service Manual

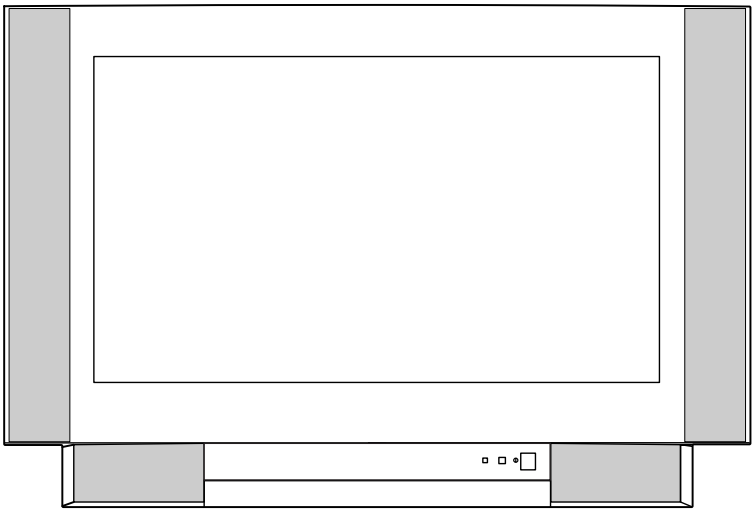
CE32WN6F-C

Model CE32WN6F-C

Service Ref. No. CE32WN6F-C-00
CE32WN6F-C-01

PRODUCT CODE: 111356919

ORIGINAL VERSION: Chassis No. EB7-A



Please use Schematic Diagram SKP20410 with this Service Manual.

Give complete "SERVICE REF. NO." for parts order or servicing, it is shown on the rating sheet on the cabinet back of the TV set.

Note
This TV receiver will not work properly in foreign countries where the television transmission system and power source differ from the design specifications. Refer to the specifications for the design specifications

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Part No. SKSM0653 C3YZV MAY 2003

SAFETY PRECAUTION

1: An isolation transformer should be connected in the power line between the receiver and the AC line when a service is performed on the primary of the converter transformer of the set.

2: Comply with all caution and safety-related notes provided on the cabinet back, inside the cabinet, on the chassis or the picture tube.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, isolation resistor-capacitor networks etc. Before returning any television to the customer, the service technician must be sure that it is completely safe to operate without danger of electrical shock.

X-RADIATION PRECAUTION

The primary source of X-RADIATION in the television receiver is the picture tube. The picture tube is specially constructed to limit X-RADIATION emissions. For continued X-RADIATION protection, the replacement tube must be the same type as the original including suffix letter. Excessive high voltage may produce potentially hazardous X-RADIATION. To avoid such hazards, the high voltage must be maintained within specified limit. Refer to this service manual, high voltage adjustment for specific high voltage limit. If high voltage exceeds specified limits, take necessary corrective action. Carefully follow the instructions for +B1 volt power supply adjustment, and high voltage adjustment to maintain the high voltage within the specified limits.

PRODUCT SAFETY NOTICE

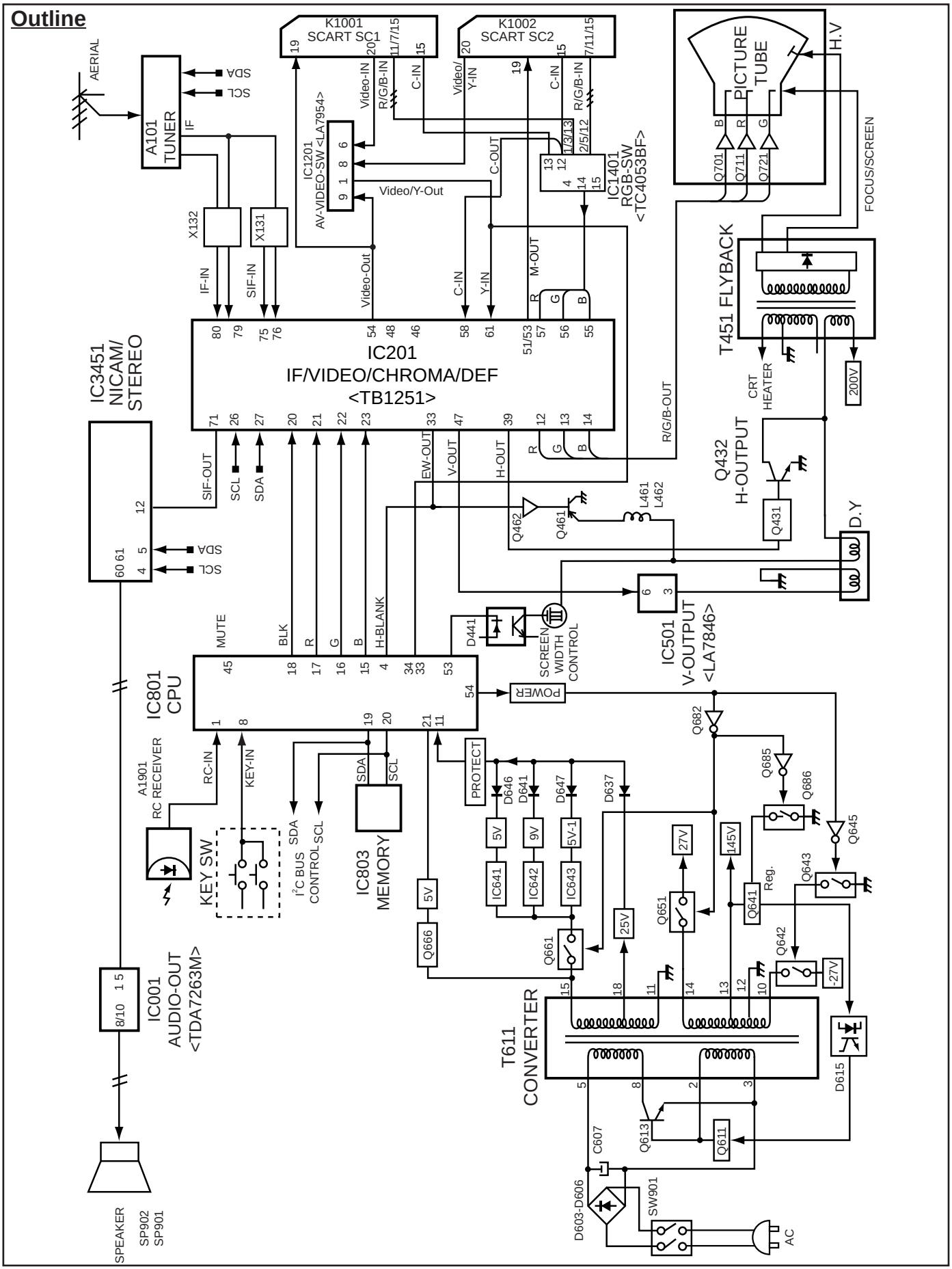
Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is particularly recommended that only parts designated on the parts list in this manual be used for component replacement designated by mark ⚠ . No deviations from resistance wattage or voltage ratings may be made for replacement items designated by mark ⚠ .

SPECIFICATIONS

Power source	AC 220~240V, 50Hz
Television system	System B/G, D/K, I, L/L'
Colour system	PAL/SECAM/NTSC4.43 (PAL/NTSC4.43/NTSC3.58 IN AV MODE)
Receiving channel	UHF: #21~69
Aerial input impedance	75ohm
Rear AV terminal	
AV1:	CENELEC standard
INPUT:	Composite video, RGB and Audio L/R
OUTPUT:	TV-output with composite video and audio L/R
AV2:	CENELEC standard
INPUT:	Composite video, RGB, S-VHS and Audio L/R
OUTPUT:	Monitor output with composite video and Audio L/R
Sound output(Music)	5W x 2
Dimensions (WxHxD)	736 x 597 x 494mm
Weight	32 Kg

BLOCK DIAGRAM

This is a diagram for all models and therefore differs slightly from the actual block diagram.



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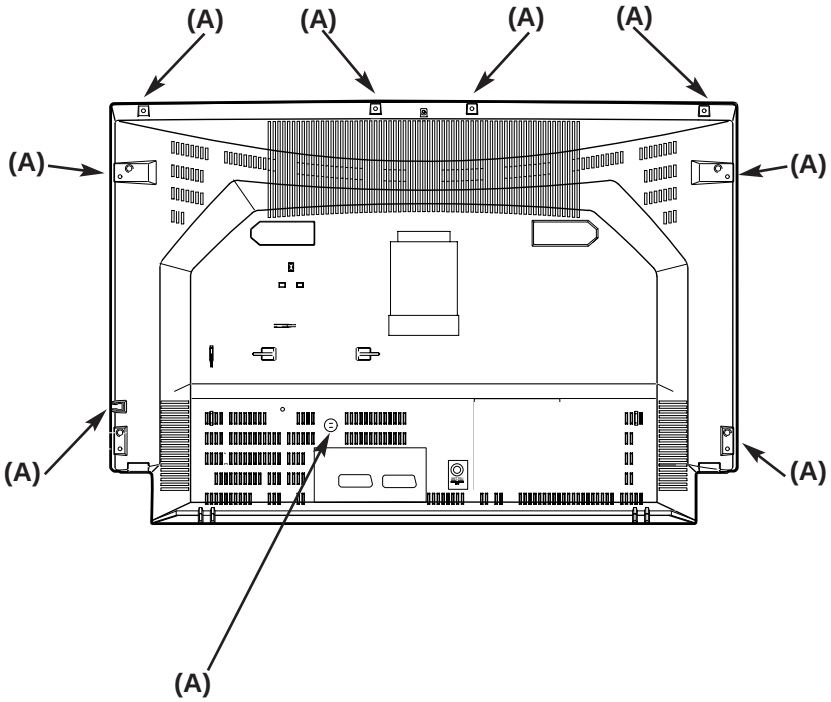
CABINET DISASSEMBLY

CABINET BACK DISASSEMBLY

1. Remove 9 screws(A) for 32”
2. Pull out the cabinet back.



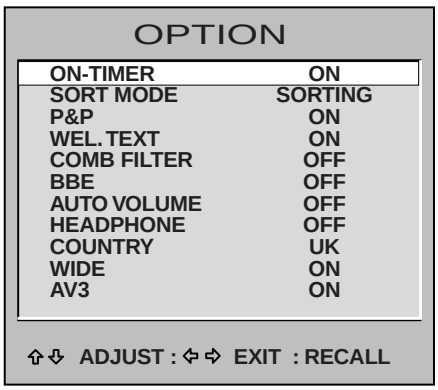
OPTION SETTING

[After replacing the Memory IC (IC803)]

The memory IC, IC803, stores the option data of TV set and service adjustments data for each circuit, therefore, when the memory IC is replaced, it should be programmed to the following settings and “SERVICE ADJUSTMENT” on pages 6 to 9.

To enter to the Option Mode

+ Press and hold the **F/OK** button on the remote control and **P▼** button on the front panel of the TV. The option window will appear on the screen.



OPTION MODE FOR CE32WN6F-C-00

To set the Option Mode

+ Highlight the desired option item by using the **P▲** or **P▼** button .
+ To switch the option mode, use the **Volume - (LEFT)** or **Volume + (RIGHT)** button.
+ The data which is set in the option mode is stored into the memory IC automatically.

The following table shows the available option items and default setting mode.

Option Mode	Mode	Description & Note
ON-TIMER	ON or OFF	On-timer available, default “ON”
SORT MODE	SORTING or TUNING	Tuning mode, default “SORTING”
P & P	ON or OFF	Plug & Play mode, default “ON”
WEL. TEXT	ON or OFF	Display message when first set up, default “ON”
COMB FILTER	OFF or ON	For factory use, default “OFF”
BBE	ON or OFF	BBE sound mode, default “OFF”
AUTO VOLUME	ON or OFF	Auto volume default “OFF”
HEADPHONE	ON or OFF	Headphone control , default “OFF”
COUNTRY	UK or IRE or BG/DK / I / LL’	TV system, default “UK”
WIDE	ON or OFF	Wide mode, default ON
AV3	ON or OFF	Front AV disable, default “ON”

Exit from the Service Mode

+ Press the **RECALL** button.

SERVICE ADJUSTMENTS

Note: Some items of the service adjustments for this chassis are controlled by the CPU, IC801, and the adjustments are carried out by using the RC handset.

[After replacing the Memory IC (IC803)]

The memory IC, IC803, stores the service adjustments data for each circuit, therefore, when the memory IC is replaced, it should be programmed by using “OPTION SETTING” on previous page and the following adjustments.

ADJUSTABLE SERVICE ADJUSTMENT

REGULAR

Item No.	OSD	Description
1	AGC	AGC Adjustment
2	--	Cut-Off Drive Adjustment
3	GRY	G-Drive Adjustment (white balance)
4	GRY	B-Drive Adjustment (white balance)
5	CTR	Contrast Adjustment (use factory setting)(for factory use)
6	--	Screen Adjustment mode
8	OSD	OSD Positioning Adjustment

IMAGE

Item No.	OSD	Description
1	P V-C	P Vertical Position Adjustment
2	P H-P	P Horizontal Position Adjustment
3	P V-L	P Vertical Linearity Adjustment
4	P VSC	P Vertical S-Correction Adjustment
5	P V-A	P Vertical Size Adjustment
6	P H-S	P Horizontal Size Adjustment
7	P E-P	P Pin Cushion Adjustment
8	P E-T	P Trapezoid Distortion Adjustment
11	P ECT	P Top Corner Correction Adjustment
12	P ECB	P Bottom Corner Correction Adjustment
13	P HPA	P Parallelogram Distortion Adjustment

IMPORTANT NOTICE

Do not attempt to adjust service adjustments not listed on the above otherwise it may cause loss of performance and product safety.

To enter to the Service Mode

+ Press and hold the **GREEN** button on the remote control and then press the **P▼** button inside of the door. Press the **P▼** button to highlight the mode required (Regular, Image, others and TB12**). Then press the F/OK button to select the mode.

The available adjustment items are as follows;

Image : This can be adjusted for picture images/shapes.
Regular : This can be adjusted for the service adjustment.
other : This is for factory setting. **DO NOT ADJUST.**
TB1251 : This is for the factory setting. **DO NOT ADJUST.**

To select the mode and service item and change data value

+ Highlight the desired adjustment mode by using the **P▲** or **P▼** button and then press the **F/OK** button.
+ To select the adjustment item, use the **P▲** or **P▼** button.
+ To change the service data, use the **Volume -(LEFT)** or **Volume + (RIGHT)** button.
+ The data which is set in the service mode is stored into the memory IC automatically.

REGULAR mode

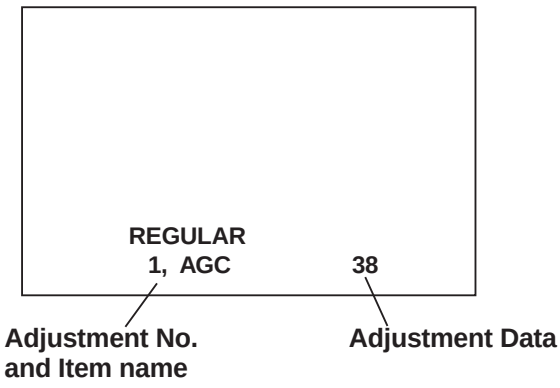
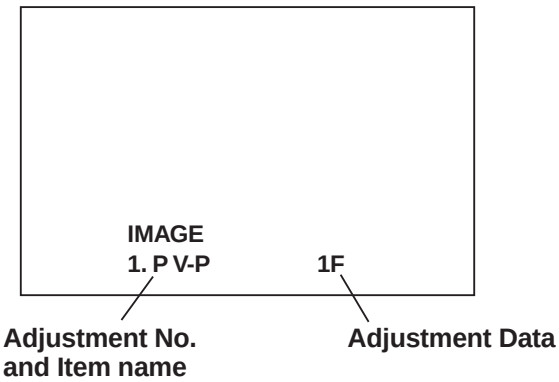


IMAGE mode



Exit from the Service Mode

+ Press the **RECALL** button or turn off the TV set by using the Mains switch.

INITIALISATION OF MEMORY IC

To initialise the memory IC (IC803), press and hold the **NORMAL** →•← button on the remote control, then press the **P▼** button on the front panel of the TV set and then turn the Mains switch Off and On. The initialisation is now completed.
When initialised the memory IC and all of the setting data (option data and service adjustment data) stored in the IC are reset to the default value. It is necessary to set the option settings and readjust the service adjustments listed on page 6 and to re-tune all the channels.

ADJUSTMENTS

IMPORTANT NOTICE

Do not attempt to adjust the following service adjustments except when adjustments are required in servicing otherwise it may cause loss of performance and product safety.

+ B VOLTAGE ADJUSTMENT

1. Receive white raster pattern.
2. Set controls to normal.
3. Connect digital voltmetre to test point TP-B and GND.
4. Adjust voltage to 145 ±0.5V by using VR641.

AGC ADJUSTMENT

1. Input and tune an RF signal which is UHF to the clearest station.
2. Connect digital voltmetre to test point TP-A and GND.
4. Enter to the service mode and select mode “REGULAR”, and select item no.1 “REGULAR 1, AGC”.
5. Press the **LEVEL+** or **LEVEL -** button to adjust voltage to be 3.2Vdc.

FOCUS ADJUSTMENT

By using FOCUS VR, adjust focus control for well defined scanning lines.

GREY SCALE ADJUSTMENT

SCREEN ADJUSTMENT

1. Receive black & white pattern.
2. Enter to the service mode and select mode “REGULAR”, and select item no. 2 “REGULAR 2, CUT”. The horizontal line will appear on the screen.
3. Set the SCREEN VR for one colour to be just visible.
4. Using the numeric buttons shown set each colour to minimum by decreasing to the point where any further decrease resets the adjustment to maximum value.

BIAS ADJUSTMENT

5. By using the buttons 1, 2, 4, 5, 7, 8 on the remote control, adjust the line to be white.

The key allocation is as follows;

Button No.	Operation
1	Increase Red
2	Decrease Red
4	Increase Green
5	Decrease Green
7	Increase Blue
8	Decrease Blue

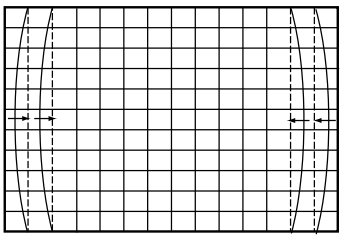
DRIVE ADJUSTMENT

6. Select item no.3 “REGULAR 3, GRY” (G-Drive) or 4 “REGULAR 4, GRY” (B-Drive) and adjust both initially to 40.
7. Change data value of each item by using **LEVEL +** or **LEVEL -** button to obtain the proper white balance.

PCC ADJUSTMENT

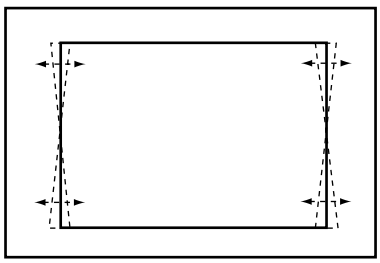
PCC ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “IMAGE”, and select item no. 7 “IMAGE 7.P E-P”.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the vertical line to be straight.



TRAPEZOID ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “IMAGE”, and select item no. 8 “IMAGE 8.P E-T”.
3. Press the **LEVEL+** or **LEVEL -** button to correct the trapezum distortion of the vertical line.



CORNER ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "IMAGE", and select item no. 11 "IMAGE 11.P ECT" for top corner adjustment OR item no. 12 "IMAGE 12.P ECB for bottom corner adjustment.
3. Press the **LEVEL+** or **LEVEL -** button to correct the distortion of the vertical line around the corners.

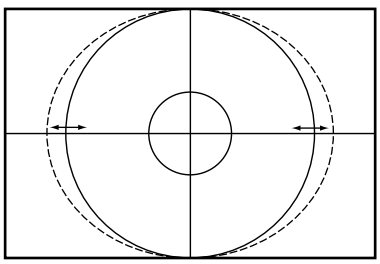
HORIZONTAL ADJUSTMENT

HORIZONTAL CENTRING ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "IMAGE", and select item no. 2 "IMAGE 2.P H-P".
3. Press the **LEVEL+** or **LEVEL -** button to adjust the horizontal centre.

HORIZONTAL WIDTH ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "IMAGE", and select item 6 "IMAGE 6.P H-S".
3. Press the **LEVEL+** or **LEVEL -** button to adjust the horizontal width.



HIGH-VOLTAGE CONFIRMATION

1. Receive circular pattern and set screen mode to "FULL".
2. Set controls for brightness and contrast to maximum.
3. Connect high-voltage meter to the anode of CRT and GND.
4. Confirm that voltage is 30.5±1.0kV

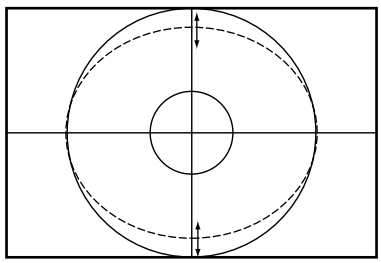
VERTICAL ADJUSTMENT

VERTICAL CENTRING ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "IMAGE", and select item no. 1 "IMAGE1.P V-C".
.3 Press the **LEVEL+** or **LEVEL -** button to adjust the vertical centre.

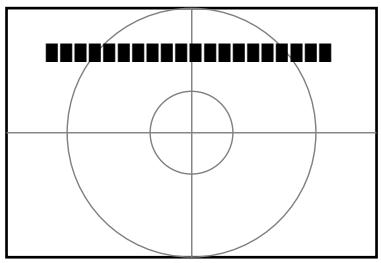
VERTICAL HEIGHT ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "IMAGE", and select item no. 5 "IMAGE 5.P V-A.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the vertical height.



OSD POSITIONING ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter to the service mode and select mode "REGULAR", and select item no. 8 "REGULAR 8 OSD". The OSD test bar will appear on the top of screen.
3. Press the **LEVEL+** or **LEVEL -** button to adjust proper OSD positioning.



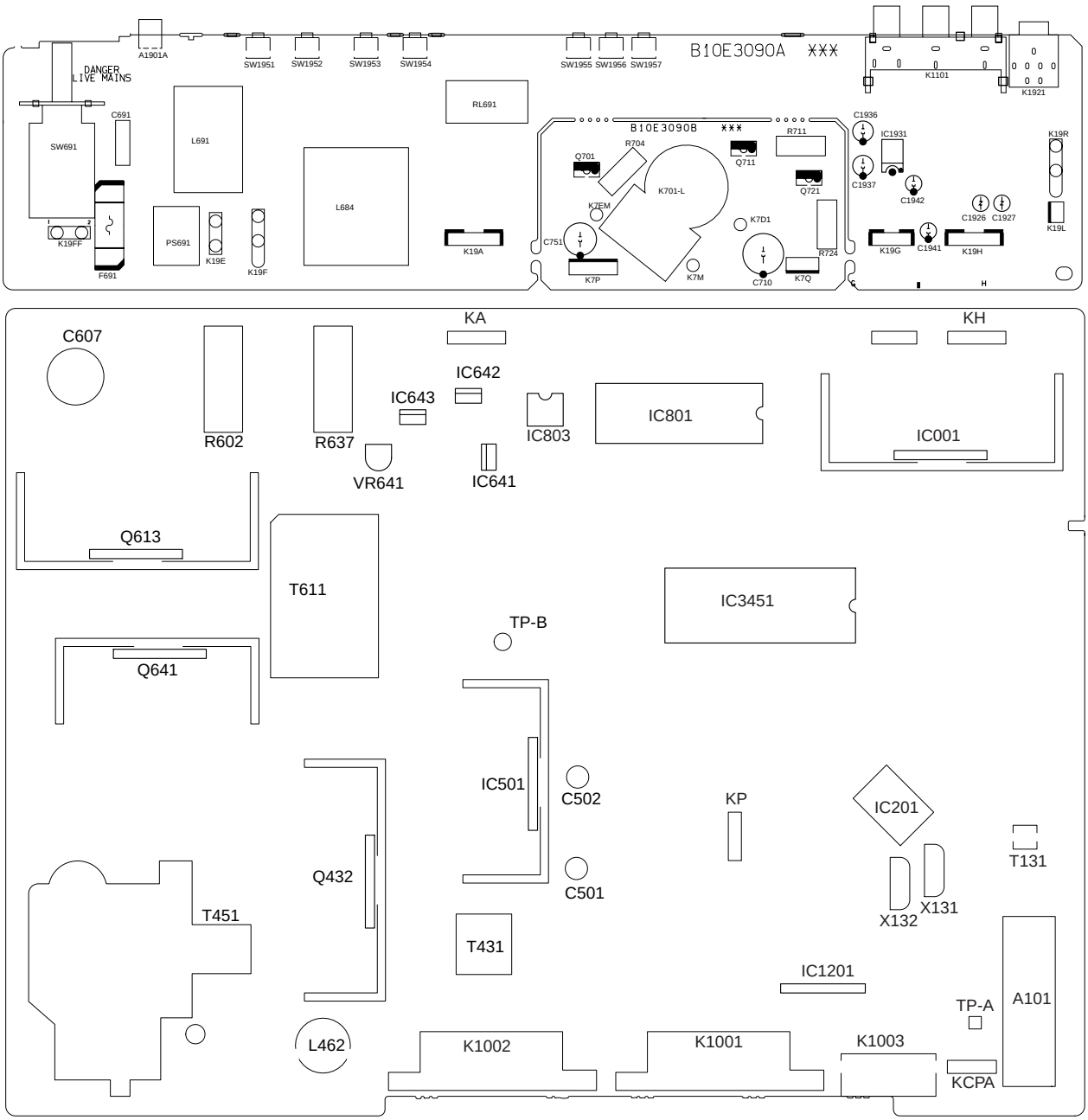
CPU PORT FUNCTIONS

Pin No.	Function Name	Function	IN/OUT
1	RC IN	RC Signal Input	IN
2	RESET	Reset Input	IN
3	50/60	50/60Hz output 50Hz:H	OUT
4	H-BLK	H-Blank (on/off?)	OUT
5	V-BLK		--
6	AV-SW2	Option SW2	--
7	AV-SW1	Option SW1	--
8	KEY IN	Key switch signal input	IN
9	H-P		
10	RELAY	To operate degauss circuit	OUT
11	PROTECT	Power failure detect input “L” error	IN
12	HP-MUTE		OUT
13	BBE		OUT
14	?		OUT
15	B-OUT	Blue output	OUT
16	G-OUT	Green output	OUT
17	R-OUT	Red output	OUT
18	FB-OUT	Fast Blanking output	OUT
19	SDA	SDA	IN/OUT
20	SCL	SCL	OUT
21	VDD	Power	--
22		Not used	--
23		Not used	--
24		Not used	--
25	AVDD3	Analogue VDD of PLL	--
26	TEST0	Test	--
27	MCFM	Test	--
28			--
29	TXCF	Analogue pin for Teletext slicerline PLL	--
30			--
31	AVDD2	Analogue power supply	--
32		Not used	--
33		Video input (H.F)	IN
34		Video input (L.F.)	IN
35		Not used	--
36		Not used	--
37		Not used	--
38	PXFM	Analogue pin for the Display Pixel Frequency Multiplier	--
39	VDDA		--
40	H-SYNC	Horizontal Sync. Input	IN
41	V-SYNC	Vertical Sync. Input	IN
42	ACK	Answer for status	OUT
43	STATUS	Request for BUS open	IN
44	INGNOR	Not Used	--
45	MUTE	Sound Mute on/off switch	OUT
46	L/L’	Not used	OUT
47	LED	Led drive	OUT
48	S-VHS-SW	Not used	--
49	H-PHASE	Not used	--
50	OSC	Clock oscillator	IN

Pin No.	Function Name	Function	IN/OUT
51	OSC	Clock oscillator	IN
52	AGC	Auto gain control	IN
53	P-TTAR1	Pittari switch (Natural wide)	OUT
54	POWER & RL	Power & relay On/Off control	OUT
55	8PIN (SC2)	AV2 Scart function input	IN
56	8PIN (SC1)	AV1 Scart function input	IN

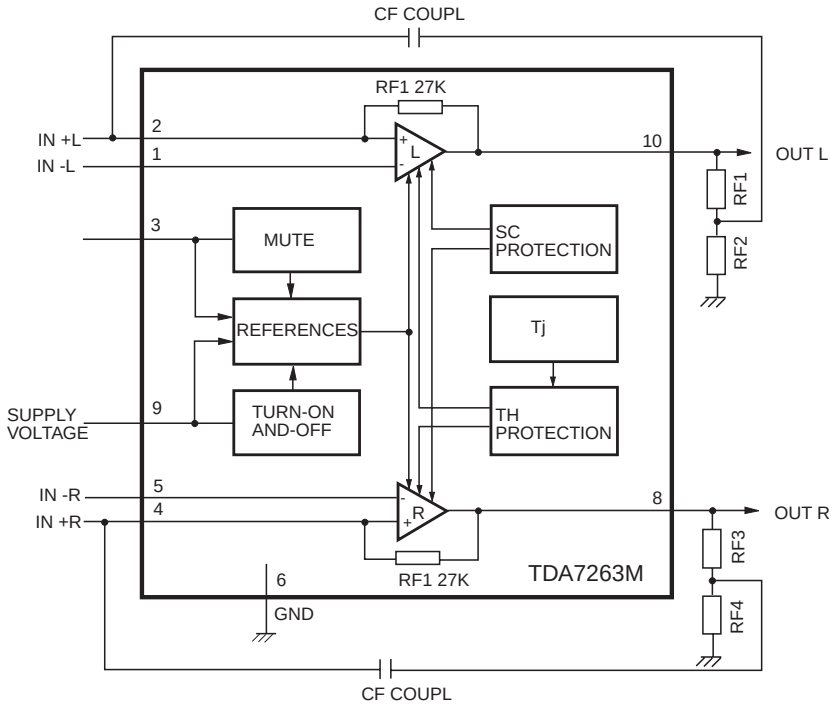
COMPONENT LOCATIONS

MAIN BOARD / FRONT BOARD / CRT BOARD

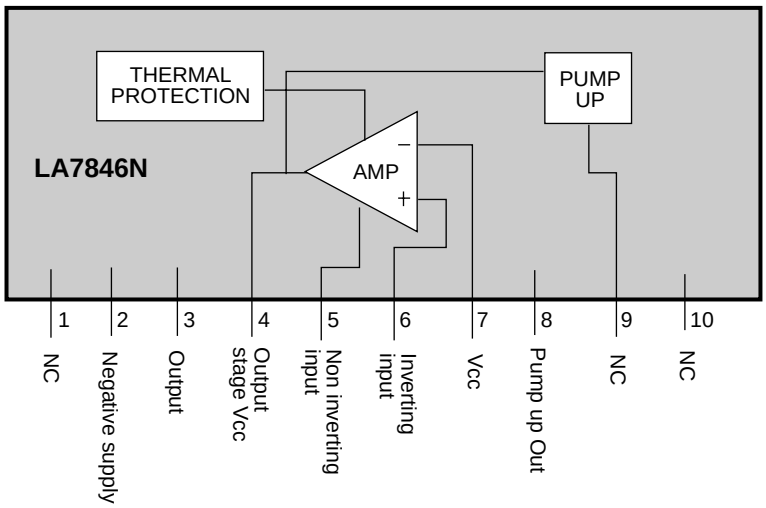


IC BLOCK DIAGRAMS

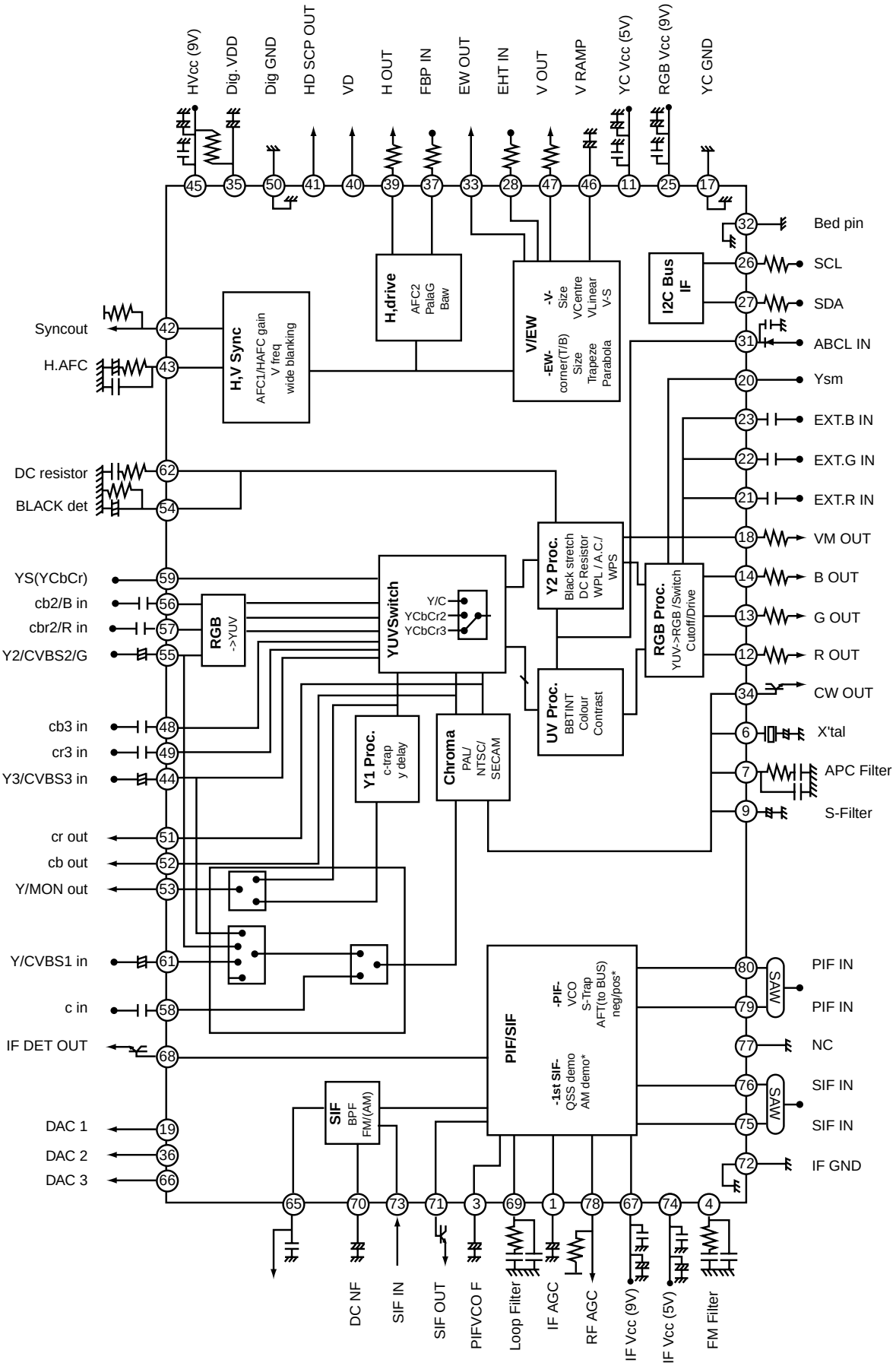
IC001 TDA7263M <Audio Output>



IC501 LA7846N <Vertical Output>



IC201 TB1262F <IF/Video/Chroma/Def.>



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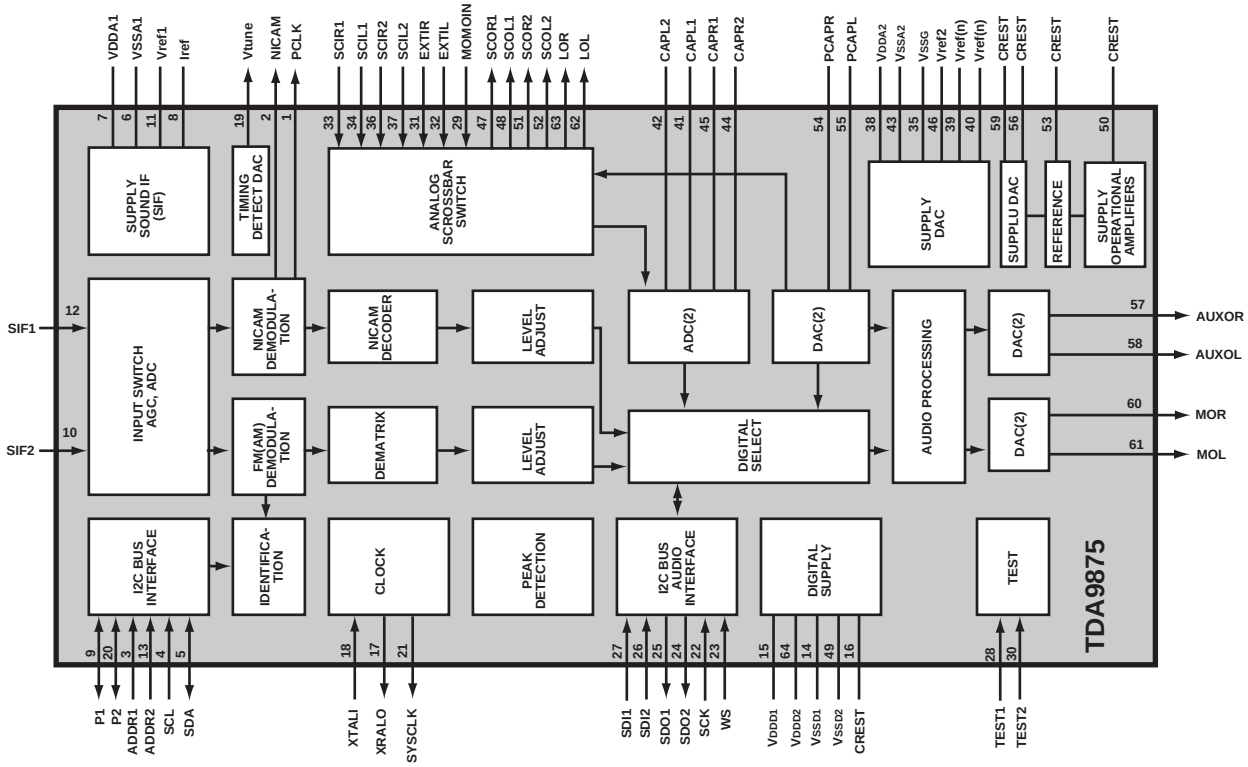
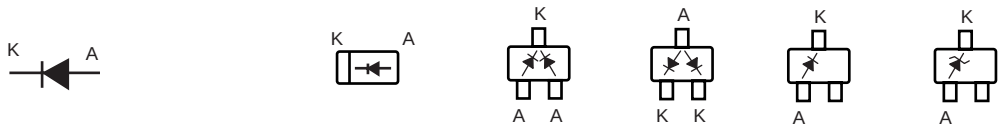
IC3451 TDA9875A <NICAM & Stereo Sound Decoder>



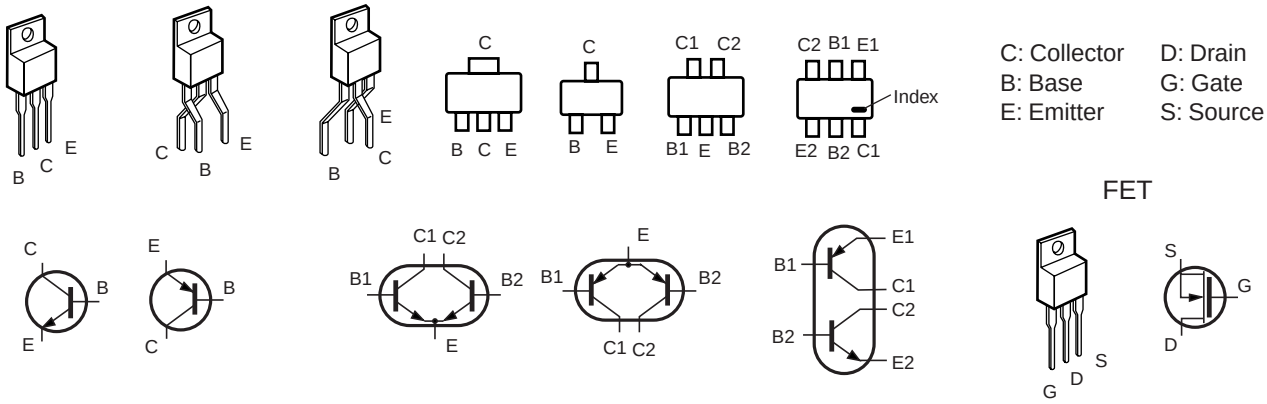
C3YZV

PIN DESCRIPTION OF SEMICONDUCTORS

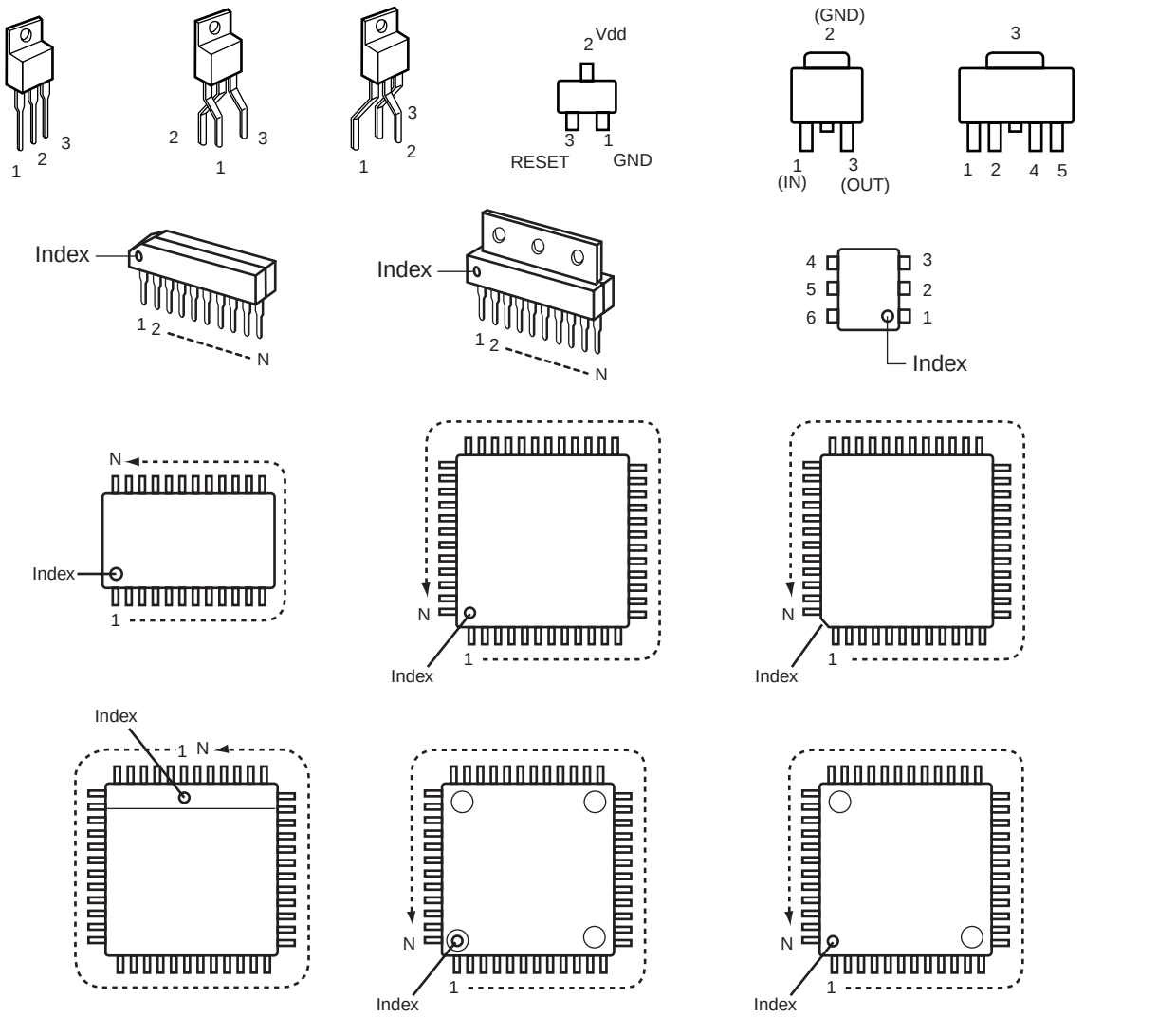
● Diode



● Transistor/FET



● IC



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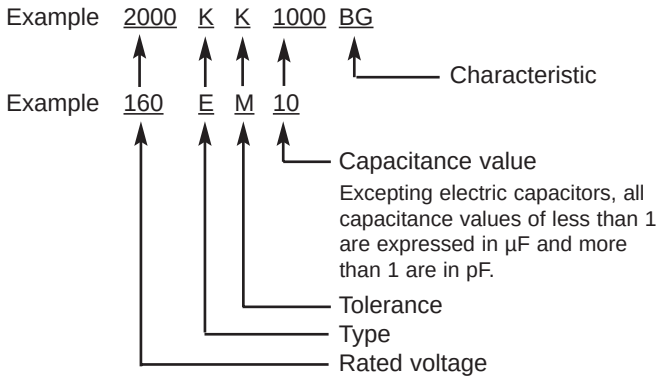
PARTS DESCRIPTION AND READING IN SCHEMATIC DIAGRAM

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video colour bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmetre.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF.
Tolerance
Type
Rated voltage

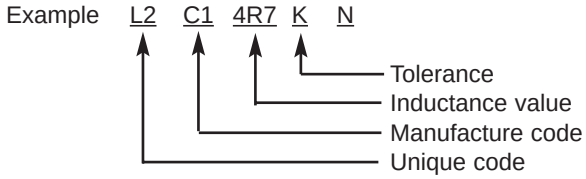
● Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-Polarised)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalised polypropylene
H	Metalised polypromylar
B	Ceramic (semiconductor)
G	Metalised polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● Tolerance table

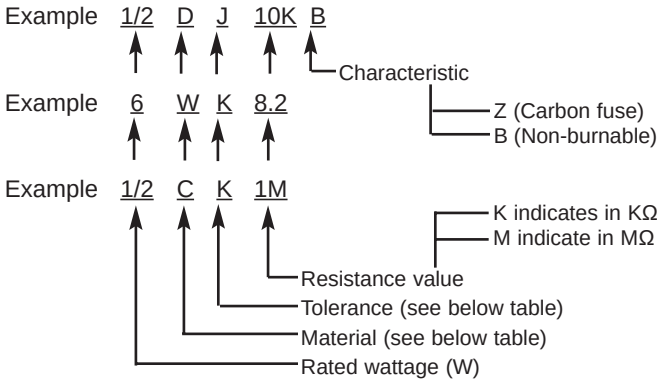
Mark	Tolerance	
A	not specified	
B	±0.1	
C	±0.25	
D	±0.5	
F	±1	
G	±2	
E	±2.5	
H	±3	
J	±5	
K	± 0	
M	±20	
N	±30	
P	+100	-0
Q	+30	-10
T	+50	-10
U	+75	-10
V	+20	-10
W	+100	-10
X	+40	-20
Y	+150	-10
Z	+80	-20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

● Tolerance table

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● Diode

Mark	Type number
--	1S1555,1S2473,1S2076,1SS133,DS442,1SS176
K	1S1555,1S2473,1S2076,DS442
L	1S1555,1S2076A,1S2471
M	1SS133,1SS176,GMA01
N	1S1555,1S2473,1S2076,1SS133,DS442,1SS176,1N4148
P	1S1555,1S2076A,1S2471,1N4148
R	1S1555,1S2076,1S2473,DS442,1N4148
AA	1S1555,1S2076,1S2473,1SS133,DS442,1SS176,1N4148,GMA01

● Transistor (NPN type)

Mark	Type number					
--	2SC536	2SC945A	2SC1815	2SC1740	2SC1740S	KSC945C
A	E, F, G	P, Q, R	O, Y, G	Q, R, S	Q, R, S	
B	E, F, G	P, Q, R	O, Y, G	Q, R, S		
D	F, G	P, Q	Y, G	Q, R, S		
F	F, G	P	G	R, S		
H	F, G	P, Q	Y, G	Q, R, S		Y, G
I	E, F, G	P, Q, R	O, Y, G	Q, R, S		Y, G
G	F, G	P	G	R, S		G
AD	F, G	Q, R	Y, GR		Q, R, S	
AE	E, F, G	Q, R	O, Y, GR		Q, R, S	

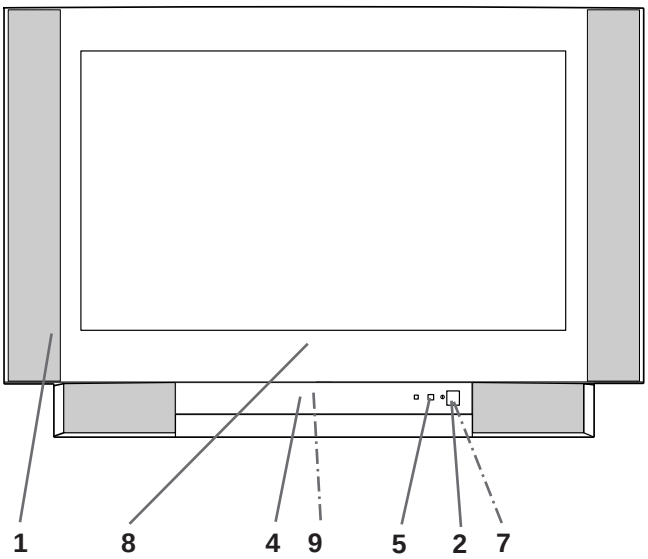
● Transistor (PNP type)

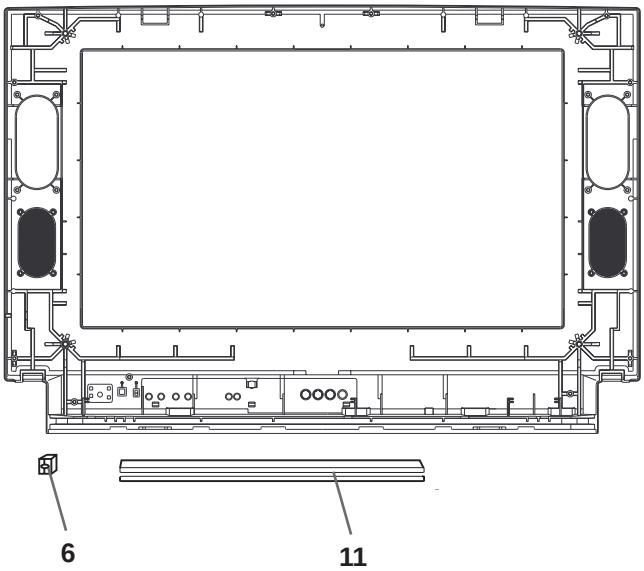
Mark	Type number					
--	2SA608	2SA564A	2SA1015	2SA933	2SA933S	KSA733C
Y	E, F	Q, R	O, Y, G	Q, R		
W	F	R	Y, G	R		
V	E, F	Q, R	O, Y, G	Q, R		Y, G
U	F	R	Y, G	R		G
Z	E, F	Q, R	O, Y, G	Q, R	Q, R	
AB	F	R	Y		Q, R	
AE	E, F	Q, R	O, Y		R	

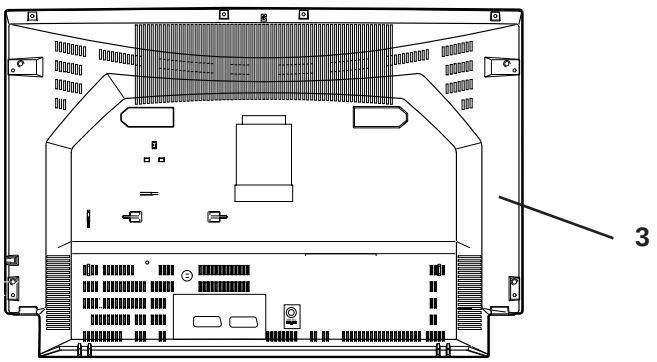
C3YZV

CABINET PARTS LIST FOR MODEL CE32WN6F-C-00

Note: Parts order must contain Service Ref. No., Part No., and descriptions.







Item	Part No.	Description
CABINET PARTS		
1	665 000 0087	CABINET FRONT-C3YR
2	610 290 9920	BUTTON POWER-C3HA
3	610 298 5818	CABINET BACK-C3YB
4	610 290 9760	DOOR-C3HA
5	610 298 4620	DEC IND-C3HB
6	610 253 2449	AC CORD HOLDER-U-D4VA
7	610 261 3032	COIL SPRING-E7GCS
8	645 043 5058	BADGE,SANYO*53.5X12L53.3
9	645 019 2449	LATCH PUSH,7.9X6.9BK
10	610 260 0131	HOLDER DC GBR-HBZ
11	610 277 6829	CHASSIS RAIL F-F7HS
ACCESSORIES		
12	645 052 2697	ASSY,REMOCON JXMTA
	645 054 9533	BATTERY ENERGIZER R6SH2VP
	665 000 0445	INST MANUAL - C3HZ/YZ (1)
	665 000 0452	INST MANUAL - C3HZ/YZ (2)

CHASSIS ELECTRICAL PARTS LIST

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark ⚠.

Note: Parts order must contain Service Ref. No., Part No., and descriptions.

Read description in the Capacitor and Resistor as follows:

CAPACITOR

CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10PF

A: Not specified	B: ±0.1PF	C: ±0.25PF
D: ±0.5PF	F: ±1PF	G: ±2PF
R: ±0.25-0PF	S: ±0-0.25PF	E: +0-1PF

More than 10PF

A: Not specified	B: ±0.1%	C: ±0.25%
D: ±0.5%	F: ±1%	G: ±2%
H: ±3%	J: ±5%	K: ±10%
L: ±15%	M: ±20%	N: ±30%
P: +100-0%	Q: +30-10%	T: +50-10%
U: +75-10%	V: +20-10%	W:+100-10%
X: +40-20%	Y: +150-10%	Z: +80-20%

Rated value: P=pico farad, U=Micro farad

Material:

CERAMIC .....Ceramic
MT-PAPER .....Metallized Paper
POLYESTER .....Polyester
MT-POLYEST .....Metallized Polyester
POLYPRO.....Polypropylene
MT-POLYPRO ....Metallized Polypropylene
COMPO FILM.....Composite film
MT-COMPO .....Metallized Composite
STYRENE.....Styrene
TA-SOLID .....Tantalum Solid
AL-SOLID .....Aluminium Solid
ELECT .....Electrolytic
NP-ELECT .....Non-polarised Electrolytic
OS-SOLID .....Aluminium Solid with Organic Semiconductive Electrolytic
DL-ELECT .....Double Layered Electrolytic

RESISTOR

CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:
A: General B: Non flammable Z: Low noise
Other: Temperature coefficient

Tolerance Symbols:
A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
F: ±1% G: ±2% J: ±5% K: ±10%
M: ±20% P: +5-15%

Rated value, ohms:
K: 1,000, M: 1,000,000

Material:

CARBON .....Carbon
MT-FILM .....Metal Film
OXIDE-MT .....Oxide Metal Film
SOLID.....Composition
MT-GLAZE .....Metal Glaze
WIRE WOUND ....Wire Wound
CERAMIC RES....Ceramic
FUSIBLE RES ....Fusible

Ref. No. Part No. Description

Chassis construction

CE32WN6F-C-00

1AA0B10H058S0 ASSY,PWB,MAIN C3YZV (Page 19~24)
1AA0B10H058HA ASSY,PWB. FRONT C3YBVD (Page 24~25)
1AA0B10H058HB ASSY,PWB.SOCKET C3YBVD (Page 25)
OUT OF CIRCUIT-013C3YZV (Page 25)

Chassis construction

CE32WN6F-C-01

1AA0B10H058S0 ASSY,PWB,MAIN C3YZV (Page 19~24)
1AA0B10H058HA ASSY,PWB. FRONT C3YBVD DIFFERENCES
1AA0B10H058HB ASSY,PWB.SOCKET C3YBVD (Page 25)
OUT OF CIRCUIT-013C3YZV (Page 25)

1AA0B10H058S0 ASSY,PWB,MAIN C3YZV

CAPACITOR

CR645TM	403 248 1410	ELECT	1U M	50V
C001	403 314 5915	GRM21BR71C474KA01L	PT297	
C002	403 215 2310	GRM188R71H123KA01D	PT115	
C003	403 314 5915	GRM21BR71C474KA01L	PT297	
C004	403 215 2310	GRM188R71H123KA01D	PT115	
C005	403 258 3619	ELECT	33U M	25V
C006	403 258 3619	ELECT	33U M	25V
C007	403 164 0214	GRM188F51E104ZA01D	PT115	
C008	403 164 0214	GRM188F51E104ZA01D	PT115	
C009	403 164 0214	GRM188F51E104ZA01D	PT115	
C010	403 195 8804	ELECT	100U M	16V
C011	403 218 8101	ELECT	1000U M	25V
C012	403 218 8101	ELECT	1000U M	25V
C013	403 164 0214	GRM188F51E104ZA01D	PT115	
C015	403 054 0703	ELECT	47U M	35V
C021A	403 154 1917	ELECT	1000U M	35V
C053	403 169 2817	GRM1885C1H331JD01D	PT115	
C101	403 248 1618	ELECT	47U M	16V
C1010	403 157 3611	GRM1885C1H101JZ01D	PT115	
C1012	403 157 3611	GRM1885C1H101JZ01D	PT115	
C1014	403 113 3815	GRM188R71H102KA01D	PT115	
C1015	403 233 0817	ELECT	10U M	50V
C1016	403 113 3815	GRM188R71H102KA01D	PT115	
C1017	403 233 0817	ELECT	10U M	50V
C102	403 039 3507	ELECT	470U M	6.3V
C1020	401 105 7919	MT-GLAZE	0.000 ZA	1/16W
C1021	403 157 3611	GRM1885C1H101JZ01D	PT115	
C1024	403 157 3611	GRM1885C1H101JZ01D	PT115	
C1026	403 113 3815	GRM188R71H102KA01D	PT115	
C1027	403 233 0817	ELECT	10U M	50V
C1028	403 113 3815	GRM188R71H102KA01D	PT115	
C1029	403 233 0817	ELECT	10U M	50V
C103	403 039 3507	ELECT	470U M	6.3V
C1034	403 157 3611	GRM1885C1H101JZ01D	PT115	
C104	403 233 0817	ELECT	10U M	50V
C1042	403 233 0817	ELECT	10U M	50V
C1043	403 233 0817	ELECT	10U M	50V
C1044	403 113 3815	GRM188R71H102KA01D	PT115	
C1045	403 113 3815	GRM188R71H102KA01D	PT115	
C106	403 215 2211	GRM188R71H103KA01D	PT115	
C109	403 215 2211	GRM188R71H103KA01D	PT115	
C110	403 215 2211	GRM188R71H103KA01D	PT115	
C113	403 069 8315	DD106-999F103Z50	P333	
C120	403 248 1618	16 YK 47 M TA 0511		
C1200	403 233 0817	ELECT	10U M	50V

Ref. No.	Part No.	Description
C1202	403 248 1618	16 YK 47 M TA 0511
C1203	403 215 2211	GRM188R71H103KA01D PT115
C1204	403 233 0817	ELECT 10U M 50V
C1205	403 233 0817	ELECT 10U M 50V
C1206	403 145 9915	GRM1885C1H220JZ01D PT115
C121	403 215 2211	GRM188R71H103KA01D PT115
C1211	403 153 9310	GRM1885C1H820JZ01D PT115
C1212	403 153 9310	GRM1885C1H820JZ01D PT115
C1213	403 233 0817	ELECT 10U M 50V
C1214	403 153 9310	GRM1885C1H820JZ01D PT115
C1215	403 153 9310	GRM1885C1H820JZ01D PT115
C1218	403 153 9310	GRM1885C1H820JZ01D PT115
C123	403 215 2211	GRM188R71H103KA01D PT115
C124	403 233 0817	ELECT 10U M 50V
C125	403 248 2813	ELECT 2.2U M 50V
C126	403 314 5915	GRM21BR71C474KA01L PT297
C127	403 215 2211	GRM188R71H103KA01D PT115
C128	403 241 3817	ELECT 220U M 10V
C130	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
C131	403 215 2211	GRM188R71H103KA01D PT115
C132	403 153 9112	GRM1885C1H5R0CD01D PT115
C133	403 153 9112	GRM1885C1H5R0CD01D PT115
C134	403 153 9310	GRM1885C1H820JZ01D PT115
C135	403 215 2211	GRM188R71H103KA01D PT115
C136	403 215 2211	GRM188R71H103KA01D PT115
C137	403 215 2211	GRM188R71H103KA01D PT115
C138	403 215 2211	GRM188R71H103KA01D PT115
C139	403 248 1618	16 YK 47 M TA 0511
C140	403 178 9319	POLYESTER 0.01U J 50V
C141	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
C143	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
C144	403 323 8815	GRM21BF51C225ZA01K PT115
C146	403 248 1618	16 YK 47 M TA 0511
C149	407 149 0817	DIODE 1SS355-TE-17
C161	403 215 2211	GRM188R71H103KA01D PT115
C202	403 113 4119	GRM188R71H222KA01D PT115
C203	403 314 5915	GRM21BR71C474KA01L PT297
C206	403 215 2211	GRM188R71H103KA01D PT115
C207	403 215 2211	GRM188R71H103KA01D PT115
C208	403 248 1618	16 YK 47 M TA 0511
C209	403 207 0317	GRM21BF51C105ZA01L PT297
C210	403 207 0317	GRM21BF51C105ZA01L PT297
C212	403 157 7114	GRM188R71H272KA01D PT115
C213	403 248 1618	16 YK 47 M TA 0511
C216	403 233 0817	ELECT 10U M 50V
C218	403 215 2211	GRM188R71H103KA01D PT115
C219	403 155 2418	GRM188R71H562KA01D PT115
C220	403 248 1410	50 YK 1R0 M TA 0511
C221	403 215 2211	GRM188R71H103KA01D PT115
C222	403 215 2211	GRM188R71H103KA01D PT115
C223	403 215 2211	GRM188R71H103KA01D PT115
C230	403 269 5916	GRM219R71C224KC01D PT115
C231	403 113 4119	GRM188R71H222KA01D PT115
C232	403 233 3818	GRM1885C1H100JD01D PT115
C233	403 248 1618	16 YK 47 M TA 0511
C234	403 164 0214	GRM188F51E104ZA01D PT115
C235	403 164 0214	GRM188F51E104ZA01D PT115
C236	403 164 0214	GRM188F51E104ZA01D PT115
C237	403 164 0214	GRM188F51E104ZA01D PT115
C238	403 139 6913	GRM1885C1H1R0JD01D PT115
C241	403 067 7895	MT-COMPO 0.47 J 50V
C242	403 207 0317	GRM21BF51C105ZA01L PT297
C243	403 314 5915	GRM21BR71C474KA01L PT297
C251	403 207 0317	GRM21BF51C105ZA01L PT297
C261	403 164 0214	GRM188F51E104ZA01D PT115
C262	403 164 0214	GRM188F51E104ZA01D PT115
C263	403 207 0317	GRM21BF51C105ZA01L PT297
C3129	403 215 2211	GRM188R71H103KA01D PT115
C3401	403 233 1517	50 YK 4R7 M TA 0511
C3409	403 233 1517	50 YK 4R7 M TA 0511
C3431	403 157 3611	GRM1885C1H101JZ01D PT115
C3432	403 157 3611	GRM1885C1H101JZ01D PT115
C3433	403 157 3611	GRM1885C1H101JZ01D PT115
C3434	403 157 3611	GRM1885C1H101JZ01D PT115
C3435	403 157 3611	GRM1885C1H101JZ01D PT115
C3436	403 157 3611	GRM1885C1H101JZ01D PT115
C3441	403 279 4312	GRM21BR71C334KA01L PT297
C3442	403 279 4312	GRM21BR71C334KA01L PT297
C3443	403 279 4312	GRM21BR71C334KA01L PT297
C3444	403 279 4312	GRM21BR71C334KA01L PT297
C3446	403 279 4312	GRM21BR71C334KA01L PT297
C3447	403 279 4312	GRM21BR71C334KA01L PT297
C3452	403 314 5915	GRM21BR71C474KA01L PT297
C3453	403 157 2911	GRM1885C1H470JZ01D PT115
C3454	403 164 0214	GRM188F51E104ZA01D PT115
C3458	403 157 2911	GRM1885C1H470JZ01D PT115
C3459	403 248 1618	16 YK 47 M TA 0511
C3461	403 207 0317	GRM21BF51C105ZA01L PT297
C3467	403 207 0317	GRM21BF51C105ZA01L PT297
C3476	403 314 5915	GRM21BR71C474KA01L PT297
C3477	403 248 1618	16 YK 47 M TA 0511
C3480	403 248 1618	16 YK 47 M TA 0511
C3481	403 248 1618	16 YK 47 M TA 0511
C3482	403 215 2211	GRM188R71H103KA01D PT115
C3483	403 215 2211	GRM188R71H103KA01D PT115
C3484	403 248 1618	16 YK 47 M TA 0511
C3485	403 215 2211	GRM188R71H103KA01D PT115
C3489	403 215 2211	GRM188R71H103KA01D PT115
C3492	403 215 2211	GRM188R71H103KA01D PT115
C3493	403 215 2211	GRM188R71H103KA01D PT115
C3494	403 164 0214	GRM188F51E104ZA01D PT115
C3495	403 164 0214	GRM188F51E104ZA01D PT115
C421	404 077 4907	DKRG1.5KV822HFC SHINEI
C422	403 083 9302	POLYPRO 0.015U J 630V
C423	404 077 5607	DKRG1.5KV982HFC SHINEI
C424	CN2J153JBGAQN	POLYPRO 0.015U
C431	403 314 5915	GRM21BR71C474KA01L PT297
C432	403 075 7111	DD07-959B102K500 P333
C433	403 076 3112	DD11-959B392K500 P333
C434	403 054 0703	ELECT 47U M 35V
C437	403 066 6106	MT-POLYEST 0.47U J 250VS
C441	403 346 6812	ECWF2204N583 MT-POLY PANA
C442	403 349 3125	ECWF2124N583 MT-POLY PANA
C443	403 346 6713	ECWF2184N583 MT-POLY PANA
C445	403 233 0817	ELECT 10U M 50V
C446	403 346 6812	ECWF2204N583 MT-POLY PANA
C450	404 056 5208	NP-ELECT 100NW2R2MTA-6311
C451	404 056 5208	NP-ELECT 100NW2R2MTA-6311
C463	408 173 8208	POLYESTER 6800P K 100V
C465	403 188 0818	MT-POLYEST 2.2U J 100V
C466	403 188 0818	MT-POLYEST 2.2U J 100V
C467	403 207 0317	GRM21BF51C105ZA01L PT297
C468	403 209 4709	ELECT 22U M 50V
C470	403 179 2517	POLYESTER 0.022U J 50V
C482	403 159 7409	MT-POLYEST 0.1U K 250V
C486	403 157 9009	250YK 0R47M TA 0611 ELCAP
C501	403 148 0424	ELECT 1000U M 25V
C502	403 217 1103	ELECT 220U M 35V
C503	403 215 2211	GRM188R71H103KA01D PT115
C504	403 279 4312	GRM21BR71C334KA01L PT297
C505	403 036 6610	CERAMIC 8P D 500V
C506	403 067 7895	MT-COMPO 0.47 J 50V
C511	403 288 9612	POLYESTER 0.033U K 100V
C528	403 164 0214	GRM188F51E104ZA01D PT115
C529	403 233 0817	ELECT 10U M 50V
C603	403 076 6727	DEBB33A102KP3A P335
C604	403 076 6727	DEBB33A102KP3A P335
C607	404 079 8101	ELECT LP5-400V221MS43
C614	403 237 8057	MT-COMPO 0.1U J 50V
C615	403 179 3217	POLYESTER 0.015U J 50V
C616	403 247 2111	CERAMIC 2200P K 2K
C617	403 179 1718	POLYESTER 0.033U J 50V
⚠ C631	404 073 4505	DE1E3KX222MB5BC05

Ref. No.	Part No.	Description
C633	403 199 9718	25 YK 470 M TA K1012
C637	403 161 2607	ELECT 2200U M 35V
C640	403 194 3800	ELECT 2200U M 25V
C641	403 238 4107	DEHR33A152KA3B CC 1500K1K
C642	404 055 9801	200USP220MZ25 85C
C647	403 157 6810	GRM188R71H681KD01D PT115
C648	403 195 8804	ELECT 100U M 16V
C649	403 195 8804	ELECT 100U M 16V
C650	403 195 8804	ELECT 100U M 16V
C651	403 308 3409	ELECT 1000U M 6.3V
C666	403 248 1618	16 YK 47 M TA 0511
C682	403 258 3619	ELECT 33U M 25V
C685	403 248 1410	50 YK 1R0 M TA 0511
C686	403 199 9718	25 YK 470 M TA K1012
C687	403 148 0424	ELECT 1000U M 25V
C801	403 215 2211	GRM188R71H103KA01D PT115
C802	403 248 1618	16 YK 47 M TA 0511
C803	403 164 0214	GRM188F51E104ZA01D PT115
C807	403 164 0214	GRM188F51E104ZA01D PT115
C814	403 155 2210	GRM188R71H332KA01D PT115
C816	403 155 2319	GRM188R71H472KA01D PT115
C817	403 145 9915	GRM1885C1H220JZ01D PT115
C818	403 155 2319	GRM188R71H472KA01D PT115
C819	403 145 9915	GRM1885C1H220JZ01D PT115
C821	403 069 0517	DD104-989B102K50 P333
C822	403 113 4119	GRM188R71H222KA01D PT115
C824	403 153 9310	GRM1885C1H820JZ01D PT115
C826	403 086 1808	NP-ELECT 0.47U M 50V
C827	403 323 8815	GRM21BF51C225ZA01K PT115
C833	403 157 2515	GRM1885C1H270JZ01D PT115
C834	403 157 2515	GRM1885C1H270JZ01D PT115
C835	403 155 2319	GRM188R71H472KA01D PT115
C861	403 155 1312	GRM1885C1H151JZ01D PT115
DIODE		
D041	407 012 4426	DIODE 1SS133-T-72
D1002	407 206 5618	ZENER D. UDZS-TE-1710B
D1003	407 206 5618	ZENER D. UDZS-TE-1710B
D1007	407 206 5618	ZENER D. UDZS-TE-1710B
D1008	407 206 5618	ZENER D. UDZS-TE-1710B
D101	407 100 0333	Z DIODE MTZJ36B 52MM
D1010	407 206 5618	ZENER D. UDZS-TE-1710B
D1021	407 206 5618	ZENER D. UDZS-TE-1710B
D1025	407 206 5618	ZENER D. UDZS-TE-1710B
D1026	407 206 5618	ZENER D. UDZS-TE-1710B
D1041	407 012 4426	DIODE 1SS133-T-72
D1042	407 012 4426	DIODE 1SS133-T-72
D1043	407 206 5618	ZENER D. UDZS-TE-1710B
D1044	407 206 5618	ZENER D. UDZS-TE-1710B
D1046	407 206 5618	ZENER D. UDZS-TE-1710B
D1047	407 206 5618	ZENER D. UDZS-TE-1710B
D1051	407 206 5618	ZENER D. UDZS-TE-1710B
D1052	407 206 5618	ZENER D. UDZS-TE-1710B
D1202	407 206 5618	ZENER D. UDZS-TE-1710B
D1203	407 206 5618	ZENER D. UDZS-TE-1710B
D131	407 166 1118	DIODE 1SS356-TW11
D132	407 166 1118	DIODE 1SS356-TW11
D3441	407 206 5618	ZENER D. UDZS-TE-1710B
D3442	407 206 5618	ZENER D. UDZS-TE-1710B
D3443	407 206 5618	ZENER D. UDZS-TE-1710B
D3444	407 206 5618	ZENER D. UDZS-TE-1710B
D431	407 099 6023	ZENER DIODE MTZJ9.1B
⚠ D438	407 095 8001	DIODE ERD07-15L
D439	407 007 7613	DIODE EU2
D441	407 002 6809	PHOTO COUPLE TLP521-1-BL
D442	407 149 0817	DIODE 1SS355-TE-17
D445	407 149 0817	DIODE 1SS355-TE-17
D446	407 063 9524	ZEN DIODE 52MM TAPE
D449	407 005 8632	DIODE ERA15-02-V1
D461	407 012 4426	DIODE 1SS133-T-72
D463	407 012 4426	DIODE 1SS133-T-72

Ref. No.	Part No.	Description
D465	407 012 4426	DIODE 1SS133-T-72
D466	407 099 7921	Z DIODE MTZJ20B 52MM
D469	407 007 7415	DIODE EU1 52MM
D481	407 007 7415	DIODE EU1 52MM
D482	407 012 4426	DIODE 1SS133-T-72
D501	407 005 8632	DIODE ERA15-02-V1
D502	407 149 0817	DIODE 1SS355-TE-17
D503	407 063 9128	Z.DI0DE MTZJ-T72-6.8B
D504	407 149 0817	DIODE 1SS355-TE-17
D603	407 006 6310	DIODE ERC05-10B
D604	407 006 6310	DIODE ERC05-10B
D605	407 006 6310	DIODE ERC05-10B
D606	407 006 6310	DIODE ERC05-10B
D614	407 012 4426	DIODE 1SS133-T-72
⚠ D615	407 173 2907	PHOTO COUPLE PC123F2
D616	407 012 4426	DIODE 1SS133-T-72
D617	407 007 6616	DIODE ES1
D618	407 012 4426	DIODE 1SS133-T-72
D619	407 099 6429	ZENER MTZJ-T72-11B
D630	407 007 7811	DIODE EU2Z
⚠ D633	407 166 2303	DIODE ERC-91-02L
⚠ D635	407 129 6706	DIODE RU4YX LF-L1
D637	407 012 4426	DIODE 1SS133-T-72
D641	407 149 0817	DIODE 1SS355-TE-17
⚠ D642	407 129 7000	DIODE RU4AM LF-L1
D643	407 149 0817	DIODE 1SS355-TE-17
D644	407 149 0817	DIODE 1SS355-TE-17
D645	407 099 5422	Z DIODE MTZJ6.2B 52MM
D646	407 149 0817	DIODE 1SS355-TE-17
D647	407 149 0817	DIODE 1SS355-TE-17
D648	407 106 2806	RU3YXLF-A1 15X7 DIODE
D666	407 099 5323	ZENER DIODE MTZJ-T72-5.6B
D683	407 149 0817	DIODE 1SS355-TE-17
D685	407 099 5422	Z DIODE MTZJ6.2B 52MM
D826	407 099 4821	Z DIODE MTZJ-T72-4.3B
INTEGRATED CIRCUIT		
IC001	409 301 4906	IC TDA7263M
IC001-1	610 298 5436	HEAT SINK A-OUT C3AC
IC1201	409 161 3408	IC
IC1401	409 211 7321	IC MC14053BF
IC201	409 535 4218	IC TB1262F (DRY) V2.6
IC3451	409 445 1403	IC TDA9875A/V2
IC501	409 374 0607	IC LA7846N
IC501-1	610 299 1215	ASSY,HEAT SINK V -C3HF
IC641	409 265 4806	IC L78M05CV
IC642	409 377 5401	IC L78M09CV ST
IC643	409 265 4806	IC L78M05CV
IC801	QXXAAJQEB7B-1	EB7B OTP 84K GREE
IC803	409 383 6805	IC 24LC08B/P
COIL		
L1003	610 078 5946	PIPE CORE
L1010	645 002 7420	P COIL LAL02TB100K 52MM
L1011	645 002 7420	P COIL LAL02TB100K 52MM
L1012	645 002 7420	P COIL LAL02TB100K 52MM
L1013	645 002 7420	P COIL LAL02TB100K 52MM
L1017	610 078 5946	PIPE CORE
L1018	645 002 7420	P COIL LAL02TB100K 52MM
L1019	645 002 7420	P COIL LAL02TB100K 52MM
L1020	645 002 7420	P COIL LAL02TB100K 52MM
L1021	645 002 7420	P COIL LAL02TB100K 52MM
L1022	645 002 7420	P COIL LAL02TB100K 52MM
L1023	645 002 7420	P COIL LAL02TB100K 52MM
L1201	645 003 8525	P.COIL LAL02TB4R7K 52MM
L1202	645 003 8525	P.COIL LAL02TB4R7K 52MM
L1204	645 003 8525	P.COIL LAL02TB4R7K 52MM
L1205	645 003 8525	P.COIL LAL02TB4R7K 52MM
L1206	645 003 8525	P.COIL LAL02TB4R7K 52MM
L242	645 006 4340	P.COIL LAL02TB2R2K 52MM
L243	645 006 4340	P.COIL LAL02TB2R2K 52MM
L244	645 006 4340	P.COIL LAL02TB2R2K 52MM

Ref. No.	Part No.	Description
L3452	645 006 4340	P.COIL LAL02TB2R2K 52MM
L3456	645 006 4340	P.COIL LAL02TB2R2K 52MM
L3457	645 006 4340	P.COIL LAL02TB2R2K 52MM
L3459	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
L431	645 052 5940	C9HB-1R0K-R INDUCT 1.0UH
L441	645 029 8035	COIL,LINEARITY 32" WIDE
L443	645 005 5652	AR635LY-1004K 6800UHK
L461	645 005 5645	AR635LY-1038K 2200UHK
L462	645 016 9144	S-150-045-A 650U SUMIDA
L611	645 005 5515	AR622LYF-1014K TOKO INDUC
L612	652 001 0468	PIPE C. BF1056AT52M TAPED
L635	610 078 5946	PIPE CORE
L801	645 008 2887	P.COIL LALO2TB5R6K 52MM
L802	645 008 2887	P.COIL LALO2TB5R6K 52MM
L803	645 008 2887	P.COIL LALO2TB5R6K 52MM
L861	645 008 2887	P.COIL LALO2TB5R6K 52MM
TRANSISTOR		
Q001	406 017 2400	TR BC847B,215 3000/REEL
Q043	406 017 2103	TR BC857B,215 3000/REEL
Q044	406 017 2400	TR BC847B,215 3000/REEL
Q1041	406 017 2400	TR BC847B,215 3000/REEL
Q1042	406 017 2103	TR BC857B,215 3000/REEL
Q1043	406 017 2400	TR BC847B,215 3000/REEL
Q1044	406 017 2103	TR BC857B,215 3000/REEL
Q1202	406 017 2400	TR BC847B,215 3000/REEL
Q1206	406 017 2400	TR BC847B,215 3000/REEL
Q121	406 017 2400	TR BC847B,215 3000/REEL
Q133	406 017 2400	TR BC847B,215 3000/REEL
Q141	405 015 9721	TR 2SC2814-F4-TB
Q151	406 017 2400	TR BC847B,215 3000/REEL
Q152	406 017 2400	TR BC847B,215 3000/REEL
Q153	406 017 2103	TR BC857B,215 3000/REEL
Q161	406 017 2400	TR BC847B,215 3000/REEL
Q162	406 017 2400	TR BC847B,215 3000/REEL
Q211	406 017 2103	TR BC857B,215 3000/REEL
Q242	406 017 2103	TR BC857B,215 3000/REEL
Q243	406 017 2103	TR BC857B,215 3000/REEL
Q244	406 017 2103	TR BC857B,215 3000/REEL
Q3452	406 017 2400	TR BC847B,215 3000/REEL
Q3453	406 017 2400	TR BC847B,215 3000/REEL
Q3454	406 017 2400	TR BC847B,215 3000/REEL
Q3455	406 017 2400	TR BC847B,215 3000/REEL
Q431	405 018 0616	TR 2SC3332-S
Q432	405 171 4404	S2055N (LBSAN,M) LB303A
Q432-1	610 298 5429	ASSY,HEAT SINK H-OUT C3AC
Q451	406 012 1408	TR 2SK2010-CTV-YA14
Q461	405 052 8002	TR 2SB1274-R
Q461-1	610 299 1208	ASSY,HEAT SINK PCC-C3HF
Q462	405 039 3412	TR 2SC3114-S-AA TAPED
Q491	406 017 2400	TR BC847B,215 3000/REEL
Q611	406 017 2103	TR BC857B,215 3000/REEL
Q612	405 058 0208	TR 2SC3807-R-CTV-YA
Q613	405 095 0407	TR 2SC4429-L-YB
Q613-1	610 298 5429	ASSY,HEAT SINK H-OUT C3AC
Q641	406 017 2400	TR BC847B,215 3000/REEL
Q642	T2SD1347S-AE	TR 2SD1347S-AE TAPED
Q643	406 017 2103	TR BC857B,215 3000/REEL
Q645	406 017 2400	TR BC847B,215 3000/REEL
Q651	405 009 7003	TR 2SB985-T
Q661	405 008 4805	TR 2SB764-E
Q666	405 058 0208	TR 2SC3807-R-CTV-YA
Q682	406 017 2400	TR BC847B,215 3000/REEL
Q685	406 017 2400	TR BC847B,215 3000/REEL
Q686	406 017 2103	TR BC857B,215 3000/REEL
Q802	406 017 2400	TR BC847B,215 3000/REEL
Q804	406 017 2400	TR BC847B,215 3000/REEL
Q805	406 017 2400	TR BC847B,215 3000/REEL
Q807	406 017 2103	TR BC857B,215 3000/REEL
Q808	406 017 2400	TR BC847B,215 3000/REEL

Ref. No.	Part No.	Description
RESISTOR		
R001	401 105 4116	MT-GLAZE 3.3K JA 1/16W
R002	401 105 0514	MT-GLAZE 1K JA 1/16W
R003	401 105 4116	MT-GLAZE 3.3K JA 1/16W
R004	401 105 0514	MT-GLAZE 1K JA 1/16W
R005	401 026 9333	CARBON 47 JA 1/6W 52MM
R006	401 025 1635	CARBON 1K5 JA 1/6W 52MM
R007	401 026 9333	CARBON 47 JA 1/6W 52MM
R008	401 025 1635	CARBON 1K5 JA 1/6W 52MM
R009	401 026 8138	CARBON 4.7 JA 1/6W 52MM
R010	401 026 8138	CARBON 4.7 JA 1/6W 52MM
R013	401 105 3317	MT-GLAZE 2.7K JA 1/16W
R014	401 022 1945	CARBON 680 JA 1/4W 52MM
R016	401 022 1945	CARBON 680 JA 1/4W 52MM
R018	401 105 0613	MT-GLAZE 10K JA 1/16W
R022	401 105 5410	MT-GLAZE 47K JA 1/16W
R023	401 105 5915	MT-GLAZE 560 JA 1/16W
R024	401 025 7835	CARBON 2K2JA 1/6W 52MM
R048	401 105 0613	MT-GLAZE 10K JA 1/16W
R1001	401 026 7438	CARBON 39K JA 1/6W 52MM
R1002	401 113 4412	MT-GLAZE 75 JA 1/16W
R1003	401 027 6638	CARBON 75 JA 1/6W 52MM
R1005	401 113 4412	MT-GLAZE 75 JA 1/16W
R1007	401 113 4412	MT-GLAZE 75 JA 1/16W
R1009	401 113 4412	MT-GLAZE 75 JA 1/16W
R101	401 105 0415	MT-GLAZE 100 JA 1/16W
R1011	401 113 4412	MT-GLAZE 75 JA 1/16W
R1012	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R1013	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R1014	401 105 5915	MT-GLAZE 560 JA 1/16W
R1015	401 105 5915	MT-GLAZE 560 JA 1/16W
R1016	401 026 7438	CARBON 39K JA 1/6W 52MM
R1017	401 113 4412	MT-GLAZE 75 JA 1/16W
R1018	401 027 6638	CARBON 75 JA 1/6W 52MM
R1019	401 113 4412	MT-GLAZE 75 JA 1/16W
R102	401 105 0415	MT-GLAZE 100 JA 1/16W
R1020	401 025 7835	CARBON 2K2JA 1/6W 52MM
R1021	401 025 7835	CARBON 2K2JA 1/6W 52MM
R1022	401 105 5915	MT-GLAZ 560 JA 1/16W
R1023	401 105 5915	MT-GLAZE 560 JA 1/16W
⚠ R103	401 061 4400	OXIDE-MT 33K JA 1W
R1031	401 105 5915	MT-GLAZE 560 JA 1/16W
R1032	401 105 5915	MT-GLAZE 10K JA 1/16W
R1034	401 105 0613	MT-GLAZE 10K JA 1/16W
R1041	401 105 2914	MT-GLAZE 22K JA 1/16W
R1042	401 024 6730	CARBON 100 JA 1/6W 52MM
R1043	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R1044	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R1046	401 105 2914	MT-GLAZE 22K JA 1/16W
R1047	401 024 6730	CARBON 100 JA 1/6W 52MM
R1048	401 113 4412	MT-GLAZE 75 JA 1/16W
R1049	401 113 4412	MT-GLAZE 75 JA 1/16W
R1050	401 113 4412	MT-GLAZE 75 JA 1/16W
R1201	401 105 3218	MT-GLAZE 270 JA 1/16W
R1203	401 105 3218	MT-GLAZE 270 JA 1/16W
R1206	401 105 3218	MT-GLAZE 270 JA 1/16W
R1207	401 027 6638	CARBON 75 JA 1/6W 52MM
R1215	401 105 0415	MT-GLAZE 100 JA 1/16W
R1217	401 105 5212	MT-GLAZE 470 JA 1/16W
R1226	401 105 0514	MT-GLAZE 1K JA 1/16W
R1227	401 105 3218	MT-GLAZE 270 JA 1/16W
R123	401 016 9811	CARBON 27JA 1/4W FLAM-RET
R1230	401 105 3218	MT-GLAZE 270 JA 1/16W
R124	401 105 3317	MT-GLAZE 2.7K JA 1/16W
R127	401 105 5915	MT-GLAZE 560 JA 1/16W
R136	401 105 0415	MT-GLAZE 100 JA 1/16W
R137	401 105 5212	MT-GLAZE 470 JA 1/16W
R138	401 105 5212	MT-GLAZE 470 JA 1/16W
R139	401 105 3119	MT-GLAZE 27 JA 1/16W
R140	401 105 5113	MT-GLAZE 47 JA 1/16W
R141	401 105 6011	MT-GLAZE 5.6K JA 1/16W

Ref. No.	Part No.	Description
R142	401 105 0514	MT-GLAZE 1K JA 1/16W
R143	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R144	401 105 2716	MT-GLAZE 220 JA 1/16W
R145	401 105 8213	MT-GLAZE ERJ 3GEYJ683V
R146	401 105 2914	MT-GLAZE 22K JA 1/16W
R147	401 105 0613	MT-GLAZE 10K JA 1/16W
R148	401 105 0613	MT-GLAZE 10K JA 1/16W
R149	401 027 2135	CARBON 56 JA 1/6W 52MM
R150	401 105 4215	MT-GLAZE 33K JA 1/16W
R152	401 026 1337	CARBON 27K JA 1/6W 52MM
R153	401 105 5212	MT-GLAZE 470 JA 1/16W
R154	401 105 0613	MT-GLAZE 10K JA 1/16W
R157	401 105 0613	MT-GLAZE 10K JA 1/16W
R158	401 105 4710	MT-GLAZE 39K JA 1/16W
R161	401 024 6730	CARBON 100 JA 1/6W 52MM
R162	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R163	401 105 3317	MT-GLAZE 2.7K JA 1/16W
R164	401 105 0514	MT-GLAZE 1K JA 1/16W
R165	401 105 0514	MT-GLAZE 1K JA 1/16W
R201	401 105 5212	MT-GLAZE 470 JA 1/16W
R202	401 105 3416	MT-GLAZE 27K JA 1/16W
R209	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R212	401 026 0637	CARBON 270 JA 1/6W 52MM
R213	401 105 0712	MT-GLAZE 100K JA 1/16W
R214	401 024 6730	CARBON 100 JA 1/6W 52MM
R215	401 024 6730	CARBON 100 JA 1/6W 52MM
R216	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R217	401 024 7440	CARBON 1 0K JA 1/6W 52MM
R218	401 105 0514	MT-GLAZE 1K JA 1/16W
R230	401 105 4215	MT-GLAZE 33K JA 1/16W
R233	401 105 0613	MT-GLAZE 10K JA 1/16W
R234	401 105 0415	MT-GLAZE 100 JA 1/16W
R238	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R239	401 105 0415	MT-GLAZE 100 JA 1/16W
R240	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R241	401 105 0415	MT-GLAZE 100 JA 1/16W
R242	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R243	401 105 0415	MT-GLAZE 100 JA 1/16W
R246	401 105 4710	MT-GLAZE 39K JA 1/16W
R247	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R248	401 105 7513	MT-GLAZE 82K JA 1/16W
R250	401 026 9937	CARBON 4K7 JA 1/6W 52MM
R251	401 105 1214	MT-GLAZE 120K JA 1/16W
R253	401 024 7737	CARBON 100K JA 1/6W 52MM
R254	401 024 7737	CARBON 100K JA 1/6W 52MM
R255	401 105 8114	MT-GLAZE 56K JA 1/16W
R256	401 105 0514	MT-GLAZE 1K JA 1/16W
R257	401 105 0514	MT-GLAZE 1K JA 1/16W
R258	401 105 0514	MT-GLAZE 1K JA 1/16W
R263	401 105 0613	MT-GLAZE 10K JA 1/16W
R264	401 105 0415	MT-GLAZE 100 JA 1/16W
R3411	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R3413	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R3415	401 105 1610	MT-GLAZE 15K JA 1/16W
R3416	401 105 1610	MT-GLAZE 15K JA 1/16W
R3441	401 105 1610	MT-GLAZE 15K JA 1/16W
R3442	401 105 1610	MT-GLAZE 15K JA 1/16W
R3443	401 105 1610	MT-GLAZE 15K JA 1/16W
R3444	401 105 1610	MT-GLAZE 15K JA 1/16W
R3451	401 024 6730	CARBON 100 JA 1/6W 52MM
R3452	401 024 6730	CARBON 100 JA 1/6W 52MM
R3453	401 105 0613	MT-GLAZE 10K JA 1/16W
R3471	401 105 3218	MT-GLAZE 270 JA 1/16W
R3473	401 105 5212	MT-GLAZE 470 JA 1/16W
R3474	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R3475	401 105 5212	MT-GLAZE 470 JA 1/16W
R3476	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R3485	401 105 5212	MT-GLAZE 470 JA 1/16W
R3486	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R3487	401 105 5212	MT-GLAZE 470 JA 1/16W
R3488	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R432	401 105 0514	MT-GLAZE 1K JA 1/16W
R433	401 007 1134	CARBON 1K JA 1/2W
R434	401 105 6011	MT-GLAZE 5.6K JA 1/16W
⚠ R435	402 066 4105	WIRE WOUND 4.7 KA 7W
R436	401 012 7059	CARBON 10K JA 1/4W 52MM
R437	401 026 3935	CARBON 330 JA 1/6W 52MM
⚠ R441	401 058 3706	OXIDE-MT 1K JA 1W
⚠ R442	401 065 2808	OXIDE-MT 120 JA 2W
R443	401 007 2319	CARBON 100K JA 1/2W
R444	401 024 7440	CARBON 10K JA 1/6W 52MM
R445	401 024 6730	CARBON 100 JA 1/6W 52MM
R447	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R448	401 018 2850	CARBON 330 JA 1/4W 52MM
R449	401 010 2541	CARBON 47 JA 1/2W 52MM
R450	401 025 1932	CARBON 15K JA 1/6W 52MM
⚠ R451	401 066 3705	OXIDE-MT 2.7 JA 2W
R453	401 024 7034	CARBON 1K JA 1/6W 52MM
R454	401 021 4155	CARBON 56K JA 1/4W 52MM
R455	401 019 3054	CARBON 39K JA 1/4W 52MM
R463	401 026 3935	CARBON 330 JA 1/6W 52MM
R466	401 008 4510	CARBON 2.7 JB 1/2W 52MM
R468	401 024 7034	CARBON 1K JA 1/6W 52MM
R469	401 024 9731	CARBON 12K JA 1/6W 52MM
R470	401 027 3033	CARBON 56K JA 1/6W 52MM
R471	401 025 1635	CARBON 1K5 JA 1/6W 52MM
R473	401 027 5235	CARBON 680 JA 1/6W 52MM
R474	401 011 5541	CARBON 820 JA 1/2W
R480	401 008 3810	CARBON 2.2 JB .5W FLAMPRO
R481	401 017 3848	CARBON 270K JA 1/4W 52MM
R482	401 027 8632	CARBON 8K2 JA 1/6W 52MM
R486	401 010 4317	CARBON 47K JA 1/2W
R488	401 105 5519	MT-GLAZE 470K JA 1/16W
R491	401 105 3317	MT-GLAZE 2.7K JA 1/16W
R492	401 105 0613	MT-GLAZE 10K JA 1/16W
⚠ R502	402 061 0201	FUSIBLE RES 1.5 J- 1/2W
R503	401 105 8114	MT-GLAZE 56K JA 1/16W
⚠ R510	401 057 6807	OXIDE-MT 0.68 JA 1W
⚠ R512	401 062 1200	OXIDE-MT 470 JA 1W
R513	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R514	401 105 6615	MT-GLAZE ERJ 3GEYJ682V
⚠ R515	402 002 4206	FUSIBLE RES 3.3 J- 1W
R516	401 027 5532	CARBON 6K8 JA 1/6W 52MM
R517	401 105 3416	MT-GLAZE 27K JA 1/16W
R518	401 105 5410	MT-GLAZE 47K JA 1/16W
R534	401 053 4223	MT-FILM 5K6 FA 1/6W 52MM
R537	401 105 0613	MT-GLAZE 10K JA 1/16W
R542	401 105 0613	MT-GLAZE 10K JA 1/16W
⚠ R602	402 070 9806	WIRE W. ERF-5ZYK1R8
R611	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R615	401 105 2914	MT-GLAZE 22K JA 1/16W
R617	401 105 1016	MT-GLAZE 1.2K JA 1/16W
R619	401 010 2541	CARBON 47 JA 1/2W 52MM
R620	401 007 5815	CARBON 120K JA 1/2W
R621	401 007 5815	CARBON 120K JA 1/2W
R622	401 014 5251	CARBON 15K JA 1/4W 52MM
R623	401 105 1511	MT-GLAZE 1.5K JA 1/16W
⚠ R624	401 068 2607	OXIDE-MT 47 JA 2W
⚠ R625	401 066 5204	OXIDE-MT 22 JA 2W
R626	401 016 3324	CARBON 2.2K GA 1/4W 52MM
⚠ R627	401 066 5204	OXIDE-MT 22 JA 2W
⚠ R628	401 068 6902	OXIDE-MT 56 JA 2W
⚠ R631	402 000 8602	SOLID 5.6M KA 1/2W 52AMMO
⚠ R632	402 000 8602	SOLID 5.6M KA 1/2W 52AMMO
R636	401 024 7440	CARBON 10K JA 1/6W 52MM
⚠ R637	402 087 3200	WIRE WOUND 3.3 KA 5W
R641	401 113 6515	MT-GLAZE 6.2K JA 1/16W
R642	401 043 2014	MT-FILM 150K FA 1/4W 52MM
⚠ R644	401 065 9609	OXIDE-MT 18 JA 2W
R645	401 016 4846	CARBON 22K JA 1/4W 52MM

Ref. No.	Part No.	Description
R646	401 014 6159	CARBON 150K JA 1/4W 52MM
R647	401 011 2718	CARBON 68K JA 1/2W
⚠ R648	401 066 5204	OXIDE-MT 22 JA 2W
R649	401 024 7440	CARBON 10K JA 1/6W 52MM
R650	401 024 7737	CARBON 100K JA 1/6W 52MM
R651	401 012 7059	CARBON 10K JA 1/4W 52MM
R652	401 019 1951	CARBON 3K9 JA 1/4W 52MM
R653	401 105 2914	MT-GLAZE 22K JA 1/16W
R654	401 105 7414	MT-GLAZE 8.2K JA 1/16W
R655	401 016 3859	CARBON 2.2K JA 1/4W 52MM
R656	401 024 7737	CARBON 100K JA 1/6W 52MM
⚠ R657	401 061 0006	OXIDE-MT 3.3 JA 1W
R658	401 024 7440	CARBON 10K JA 1/6W 52MM
R659	401 105 0613	MT-GLAZE 10K JA 1/16W
R660	401 024 7440	CARBON 10K JA 1/6W 52MM
R661	401 105 0613	MT-GLAZE 10K JA 1/16W
R663	401 009 9346	CARBON 390 JA 1/2W
R666	401 008 0215	CARBON 18 JA 1/2W
R667	401 027 2333	CARBON 560 JA 1/6W 52MM
R681	401 105 0613	MT-GLAZE 10K JA 1/16W
R686	401 105 3010	MT-GLAZE 220K JA 1/16W
R687	401 105 6110	MT-GLAZE 560K JA 1/16W
R688	401 105 0613	MT-GLAZE 10K JA 1/16W
R689	401 105 2914	MT-GLAZE 22K JA 1/16W
R808	401 024 6730	CARBON 100 JA 1/6W 52MM
R809	401 105 0613	MT-GLAZE 10K JA 1/16W
R815	401 024 6730	CARBON 100 JA 1/6W 52MM
R817	401 024 6730	CARBON 100 JA 1/6W 52MM
R823	401 024 6730	CARBON 100 JA 1/6W 52MM
R824	401 024 6730	CARBON 100 JA 1/6W 52MM
R826	401 025 7439	CARBON 220 JA 1/6W 52MM
R829	401 105 4215	MT-GLAZE 33K JA 1/16W
R830	401 105 4215	MT-GLAZE 33K JA 1/16W
R831	401 105 0613	MT-GLAZE 10K JA 1/16W
R832	401 105 0613	MT-GLAZE 10K JA 1/16W
R834	401 027 0339	CARBON 47K JA 1/6W 52MM
R835	401 026 7032	CARBON 3K9 JA 1/6W 52MM
R838	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R839	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R840	401 105 0514	MT-GLAZE 1K JA 1/16W
R842	401 105 1610	MT-GLAZE 15K JA 1/16W
R843	401 026 1030	CARBON 2K7 JA 1/6W 52MM
R844	401 026 1030	CARBON 2K7 JA 1/6W 52MM
R845	401 026 1030	CARBON 2K7 JA 1/6W 52MM
R847	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R848	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R849	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R852	401 105 3416	MT-GLAZE 27K JA 1/16W
R853	401 105 2914	MT-GLAZE 22K JA 1/16W
R854	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R855	401 105 0613	MT-GLAZE 10K JA 1/16W
R856	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R857	401 105 4215	MT-GLAZE 33K JA 1/16W
R859	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R860	401 105 3218	MT-GLAZE 270 JA 1/16W
R861	401 105 6516	MT-GLAZE 680 JA 1/16W
R862	401 105 7414	MT-GLAZE 8.2K JA 1/16W
R863	401 105 1610	MT-GLAZE 15K JA 1/16W
R870	401 105 0415	MT-GLAZE 100 JA 1/16W
R871	401 105 0613	MT-GLAZE 10K JA 1/16W
R872	401 105 4611	MT-GLAZE 3.9K JA 1/16W
R873	401 105 4611	MT-GLAZE 3.9K JA 1/16W
R874	401 026 9630	CARBON 470 JA 1/6W 52MM
R875	401 026 9630	CARBON 470 JA 1/6W 52MM
R880	401 105 4710	MT-GLAZE 39K JA 1/16W
R881	401 024 7034	CARBON 1K JA 1/6W 52MM
R884	401 027 0339	CARBON 47K JA 1/6W 52MM
R885	401 024 7034	CARBON 1K JA 1/6W 52MM

Ref. No.	Part No.	Description
TRANSFORMER		
T131	610 037 4508	S COIL
T431	645 053 3341	TRANS,DRIVE TU-16 L-1490
⚠ T451	645 038 7197	TRANS,FLYBACK EB6W 32"
⚠ T611	645 058 8310	TRANS,POWER,PULSE 5W SPKR
MISCELLANEOUS		
A101	645 052 6947	TUNER,U/V
JS104	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS107	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS109	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS202	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS301	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS3452	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS806	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J106	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J110	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J111	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J200	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J202	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J203	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J206	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J218	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J227	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J231	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J232	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J248	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J251	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J307	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J308	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J341	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J342	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J355	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J431	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J440	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J441	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J515	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J520	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J554	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J630	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
KA	645 005 6574	PLUG,8P
KCPA	645 006 1905	HSG PLUG 5P S5B-XH-A JST
KDY-1	645 008 4058	TERMINAL PLUG
KDY-3	645 008 4058	TERMINAL PLUG
KDY-5	645 008 4058	TERMINAL PLUG
KDY-6	645 008 4058	TERMINAL PLUG
KF-1	645 008 4058	TERMINAL PLUG
KF-2	645 008 4058	TERMINAL PLUG
KH	645 005 6574	PLUG,8P
KP	645 008 7288	HOUSING PLUG 5P
KSC	645 008 4058	TERMINAL PLUG
KQ	645 008 7264	HOUSING PLUG 3P
K1001	645 005 5867	21-PIN SOCKET
K1002	645 005 5867	21-PIN SOCKET
K1003	645 052 5599	JACK,RCA-2
TP-A	645 008 4058	TERMINAL PLUG
TP-B	645 008 4058	TERMINAL PLUG
VR641	645 003 5579	VR, RH063MCJ3R 2K2 ALPS
X131	421 008 0906	SAW F TSB6315T
X132	421 002 2609	SAW F TSF5315
X231	645 025 1139	XTAL4.433619MHZ 16PF TAPE
X3451	645 058 9898	XTAL 24.576MHZ TAPED KSS
X801	610 282 0201	XTAL. OSC 4.00MHZ 5MM
Z101	610 282 9693	SHD.CASE EB6 6 CUTT+5HOLE
Z102	610 282 9709	SHIELD CASE C2HC-B

1AA0B10H058HA ASSY,PWB,FRONT C3YBVD

CAPACITOR

C1102	403 113 3815	GRM188R71H102KA01D PT115

Ref. No.	Part No.	Description
C1901	403 195 8804	ELECT 100U M 16V
C1922	403 215 2211	GRM188R71H103KA01D PT115
C1923	403 215 2211	GRM188R71H103KA01D PT115
C1924	403 215 2211	GRM188R71H103KA01D PT115
C1925	403 215 2211	GRM188R71H103KA01D PT115
C1926	403 085 7405	NP-ELECT 10U M 16V
C1927	403 085 7405	NP-ELECT 10U M 16V
C1928	403 113 3815	GRM188R71H102KA01D PT115
C1929	403 113 3815	GRM188R71H102KA01D PT115
C691	404 060 7205	MT-POLYEST 0.1U M 250V
C692	404 060 7205	MT-POLYEST 0.1U M 250V
DIODE		
D1102	407 012 4426	DIODE 1SS133-T-72
D1103	407 012 4426	DIODE 1SS133-T-72
D1951	408 039 4400	SLZ-981B-09H-AB-T1 LED
D691	407 012 4426	DIODE 1SS133-T-72
COIL		
L1101	645 002 7420	P COIL LAL02TB100K 52MM
L1106	645 002 7420	P COIL LAL02TB100K 52MM
L1921	645 033 2722	BEAD CORE TAIYO YUDEN 52M
L1922	645 007 9566	LAL03TB120K P/COIL 52MM
L1923	645 007 9566	LAL03TB120K P/COIL 52MM
⚠ L691	645 019 3873	LINE FILTER-SAMWHA TECOM
L692	610 237 2328	PIPE CORE
L693	610 237 2328	PIPE CORE
⚠ L694B	645 054 9106	CHOKE YDL4-563H901S YUTAK
TRANSISTOR		
Q1951	406 017 2400	TR BC847B,215 3000/REEL
Q692	406 017 2400	TR BC847B,215 3000/REEL
RESISTOR		
R1101	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R1106	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R1921	401 007 7641	CARBON 150 JA 1/2W
R1922	401 007 7641	CARBON 150 JA 1/2W
R1950	401 105 4512	MT-GLAZE 390 JA 1/16W
R1951	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R1952	401 105 5410	MT-GLAZE 47K JA 1/16W
R1953	401 105 1511	MT-GLAZE 1.5K JA 1/16W
R1954	401 105 1610	MT-GLAZE 15K JA 1/16W
R1955	401 105 7414	MT-GLAZE 8.2K JA 1/16W
R1956	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R1957	401 105 3317	MT-GLAZE 2.7K JA 1/16W
R1958	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R1959	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R1960	401 105 4017	MT-GLAZE 330 JA 1/16W
R694	401 027 8632	CARBON 8K2 JA 1/6W 52MM
MISCELLANEOUS		
A1901	645 028 1044	REMO REC SPS-443-1-E
⚠ F691	423 022 2102	FUSE 250V 4.0A
F691-1	645 000 5077	HOLDER,FUSE
F691-2	645 000 5077	HOLDER,FUSE
JS1923	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J1105	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
K1101	645 002 0568	TERMINAL,BOARD
K19A	645 005 8622	SOCKET,8P
K19E-1	645 008 4058	TERMINAL PLUG
K19E-2	645 008 4058	TERMINAL PLUG
K19F-1	645 008 4058	TERMINAL PLUG
K19F-2	645 008 4058	TERMINAL PLUG
K19FF-1	645 008 4058	TERMINAL PLUG
K19FF-2	645 008 4058	TERMINAL PLUG
K19H	645 005 8622	SOCKET,8P
K19L	645 004 2881	PLUG,2P
K19R-1	645 008 4058	TERMINAL PLUG
K19R-2	645 008 4058	TERMINAL PLUG
K1921	645 027 8761	PHONE JACK HTJ-035-10ABT
⚠ PS691	408 046 4301	PTDAA1BF4R5Q200 MURATA
⚠ RL691	645 028 2713	RELAY

Ref. No.	Part No.	Description
SW1951	610 011 4432	SWITCH,PUSH
SW1952	610 011 4432	SWITCH,PUSH
SW1953	610 011 4432	SWITCH,PUSH
SW1954	610 011 4432	SWITCH,PUSH
⚠ SW691	645 050 4129	SW,PUSH POWER SDKVA30100

1AA0B10H058HB ASSY,PWB,SOCKET C3YBVD

CAPACITOR		
C701	403 157 6711	GRM188R71H561KD01D PT115
C710	403 055 8401	ELECT 22U M 250V
C711	403 157 6711	GRM188R71H561KD01D PT115
C721	403 157 6711	GRM188R71H561KD01D PT115
C731	403 077 2728	CERAMIC 1000P P 2K
C732	403 070 4610	DD104-989B122K50 P333
C751	403 201 5011	16 YK 330 M TA K0811
DIODE		
D741	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
D742	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
D751	407 149 0817	DIODE 1SS355-TE-17
D752	407 149 0817	DIODE 1SS355-TE-17
D753	407 149 0817	DIODE 1SS355-TE-17
D754	407 149 0817	DIODE 1SS355-TE-17
COIL		
L702A	610 237 2328	PIPE CORE
TRANSISTOR		
Q701	406 009 9509	TR 2SC4544
Q711	406 009 9509	TR 2SC4544
Q721	406 009 9509	TR 2SC4544
Q741	406 017 2103	TR BC857B,215 3000/REEL
Q751	406 017 2103	TR BC857B,215 3000/REEL
RESISTOR		
R701	401 105 2716	MT-GLAZE 220 JA 1/16W
R703	401 026 9630	CARBON 470 JA 1/6W 52MM
⚠ R704	401 065 4604	OXIDE-MT 12K JA 2W
R705	401 009 1528	CARBON 2.7K JA 1/2W
R711	401 105 2716	MT-GLAZE 220 JA 1/16W
R713	401 026 9630	CARBON 470 JA 1/6W 52MM
⚠ R714	401 065 4604	OXIDE-MT 12K JA 2W
R716	401 009 1528	CARBON 2.7K JA 1/2W
R717	401 009 1528	CARBON 2.7K JA 1/2W
R721	401 105 2716	MT-GLAZE 220 JA 1/16W
R723	401 026 9630	CARBON 470 JA 1/6W 52MM
⚠ R724	401 065 4604	OXIDE-MT 12K JA 2W
R741	401 105 1016	MT-GLAZE 1.2K JA 1/16W
R742	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R744	401 105 6516	MT-GLAZE 680 JA 1/16W
R751	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R752	401 105 0613	MT-GLAZE 10K JA 1/16W
R753	401 105 0613	MT-GLAZE 10K JA 1/16W
MISCELLANEOUS		
J702	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
K7D1	645 008 4058	TERMINAL PLUG
K7M	645 008 4058	TERMINAL PLUG
K7P	645 008 7288	HOUSING PLUG 5P
K7Q	645 008 7264	HOUSING PLUG 3P
⚠ K701-L	645 031 7699	CRT SKT. HPS-014103

OUT OF CIRCUIT-013C3YZV

COIL		
⚠ L901	645 055 6593	DEGAUSS 32-0.45-T52-L3640
PICTURE TUBE		
⚠ Q901	414 011 0803	W76EGV023X015 CRT 50
MISCELLANEOUS		
⚠ SP901	645 052 7425	L/SP FB-095C-A1222
⚠ SP902	645 052 7425	L/SP FB-095C-A1222

REF NO.	PART NO	DESCRIPTION
⚠ W901	645 012 7632	EURO PLUG +2P HOUSE @ 2.1
W902	610 305 4988	GROUND CONNECTOR C5BFL

SERVICE REFERENCE 01
ALL COMPONENTS ARE THE SAME AS SERVICE REFERENCE 00 EXCEPT FOR THE FOLLOWING DIFFERENCES

1AA0B10H058HA ASSY,PWB. FRONT C3YBVD

COIL

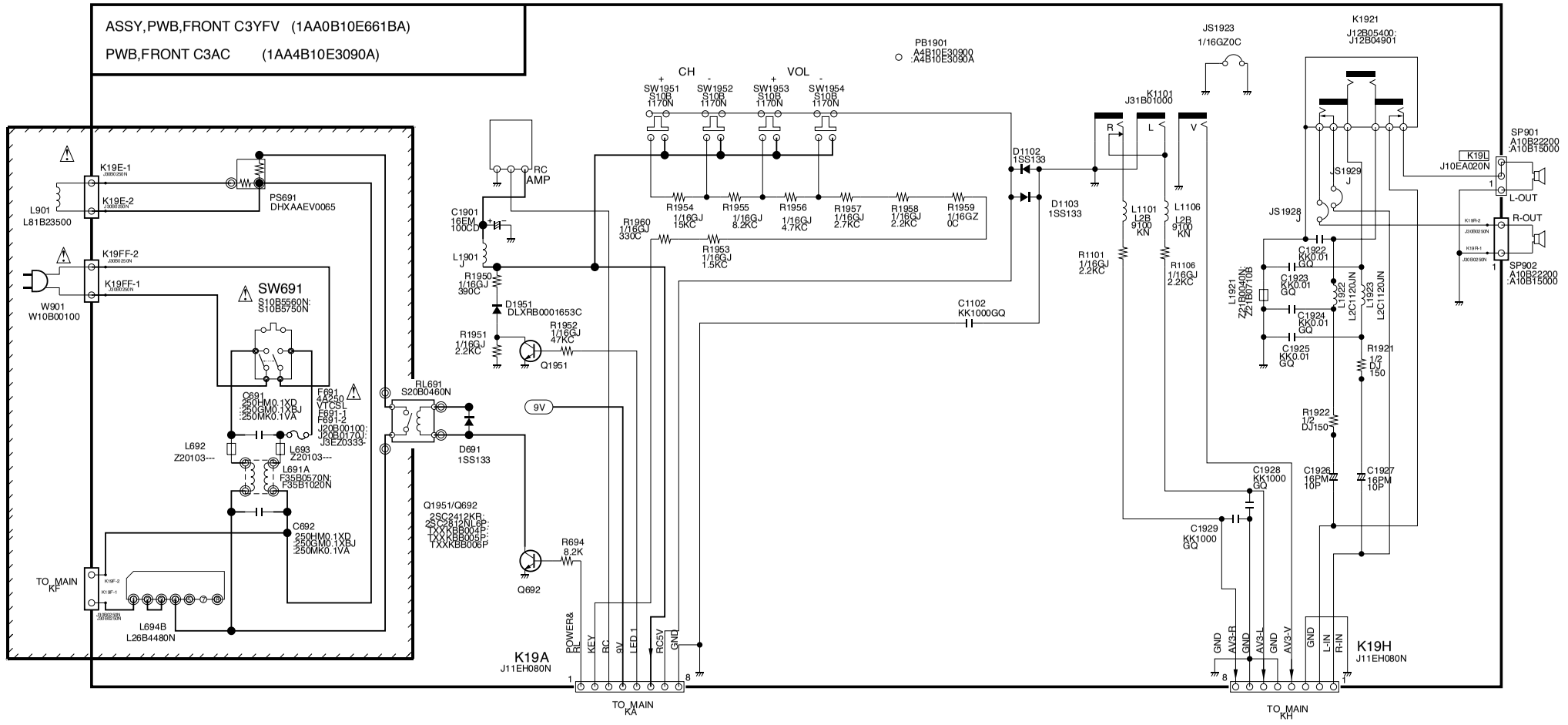
⚠ L694A	645 042 6735	CHOKE, ETQR42T004B PANA
⚠ L694B	DELETE	

All information in this manual is correct at the start of production. Sanyo reserves the right to modify components and procedures in order to comply with their continuous improvement policy.

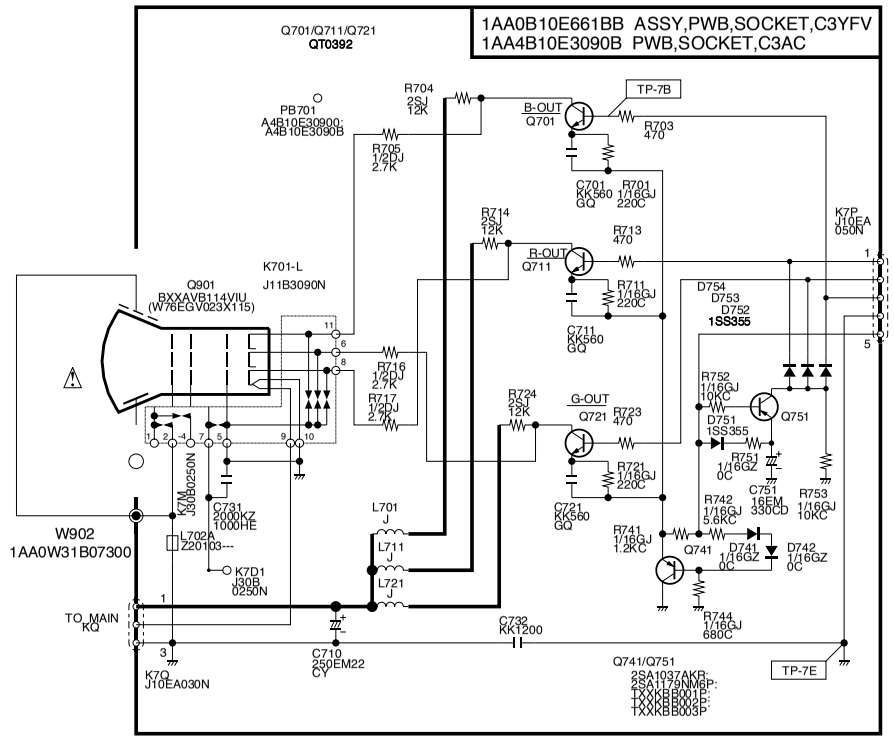
Sanyo Industries (UK) Ltd
Printed in UK

ASSY,PWB,FRONT C3YFV (1AA0B10E661BA)

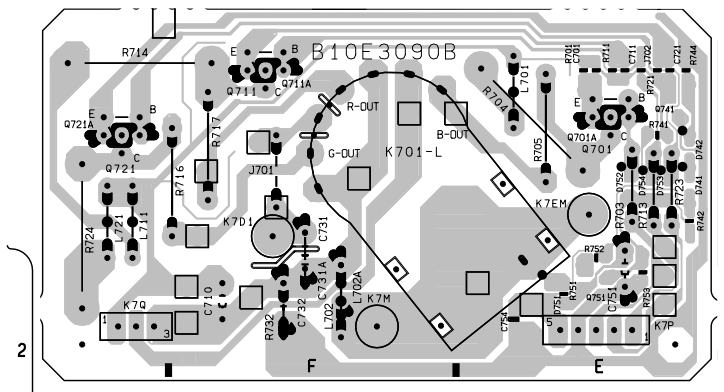
PWB,FRONT C3AC (1AA4B10E3090A)



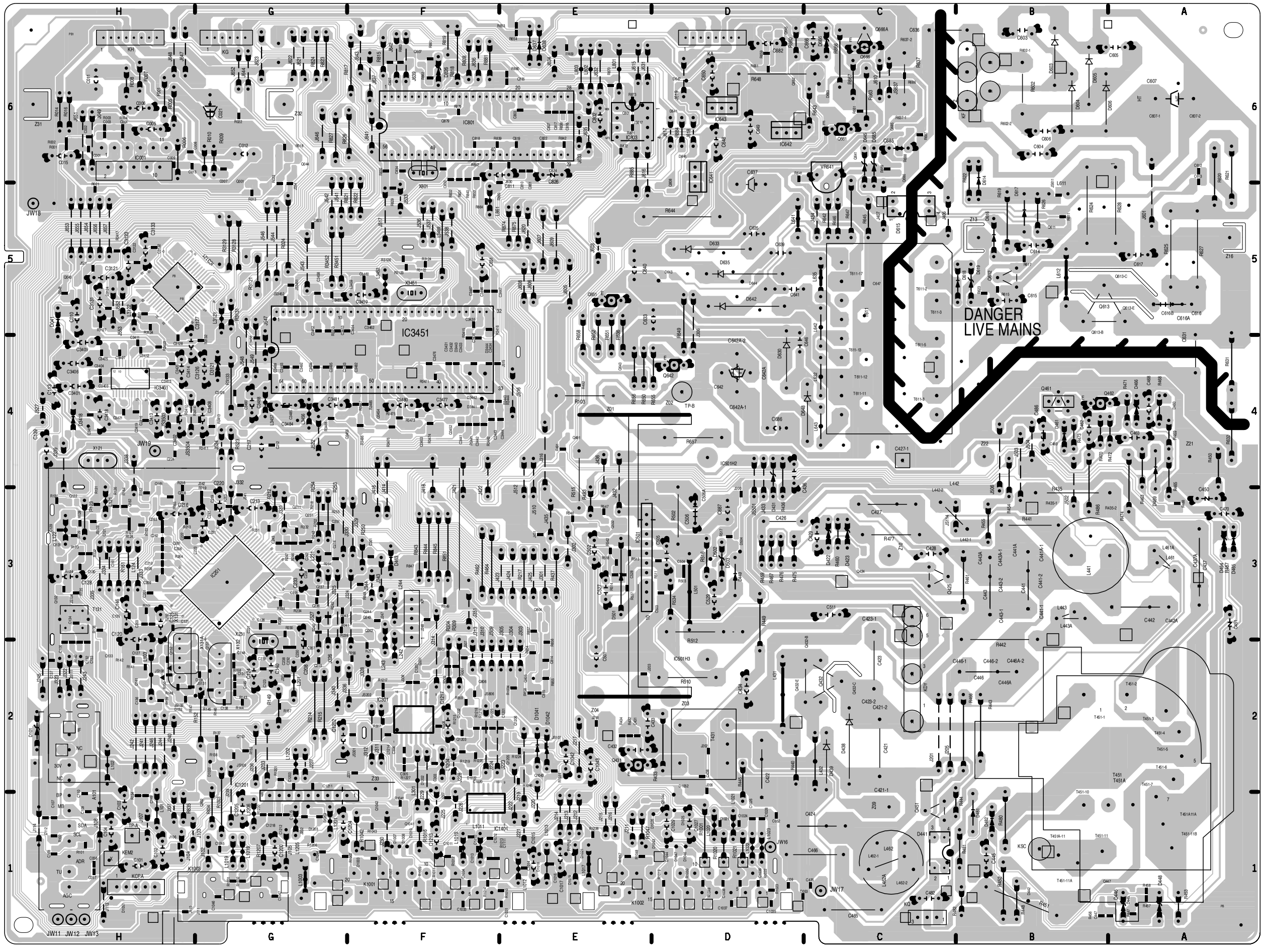
1AA0B10E661BB ASSY,PWB,SOCKET,C3YFV
1AA4B10E3090B PWB,SOCKET,C3AC



CRT BOARD



MAIN BOARD


DANGER
LIVE MAINS
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IC801
IC1201
IC1401
IC2201
IC501H2
IC501H3
IC643
IC642
IC633
VR641
X3451
X801
X121
X231
X1001
X1002
K1003
K1001
KCPA
KEM2
TP-A
TP-B
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Q463HU
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Q463HX
Q463HY
Q463HZ
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Q463IC
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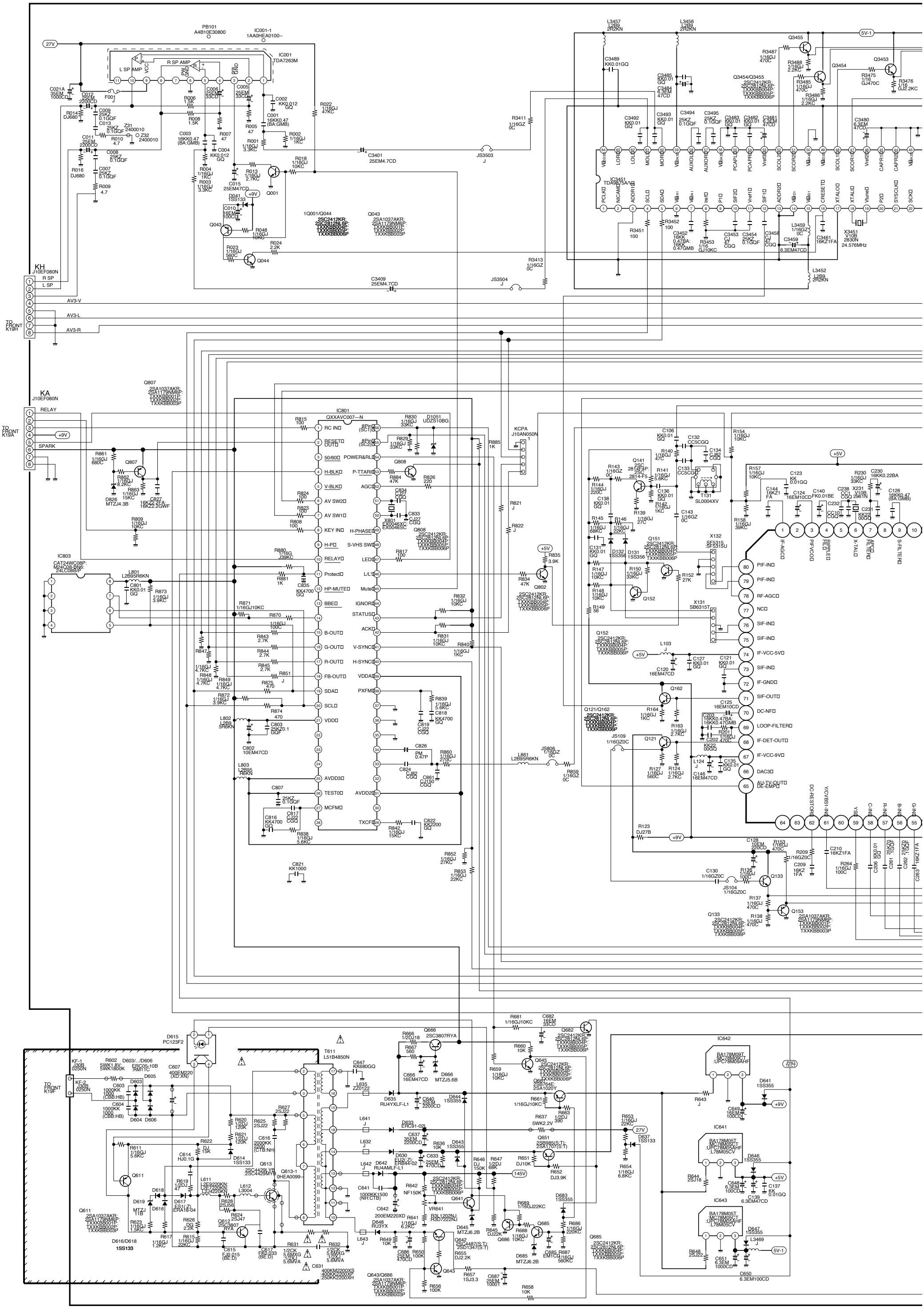


Part No. SKP20370 C3YFV (SHEET 2-3)

1AA0B10E662G0 ASSY,PWB,MAIN C3YFV
1AA4B10E30800 PWB,MAIN C3AC

TO_SOCKET_K7P
J10EA050N
KP

TUNER(WITH PLL & BAND SW)
A101
F1BEB0250

IC201
TB1262FM

IC1201
LA7954

P-TTARI

IC501
LA7846N

K1001
J1EK1745B
J11B0490N

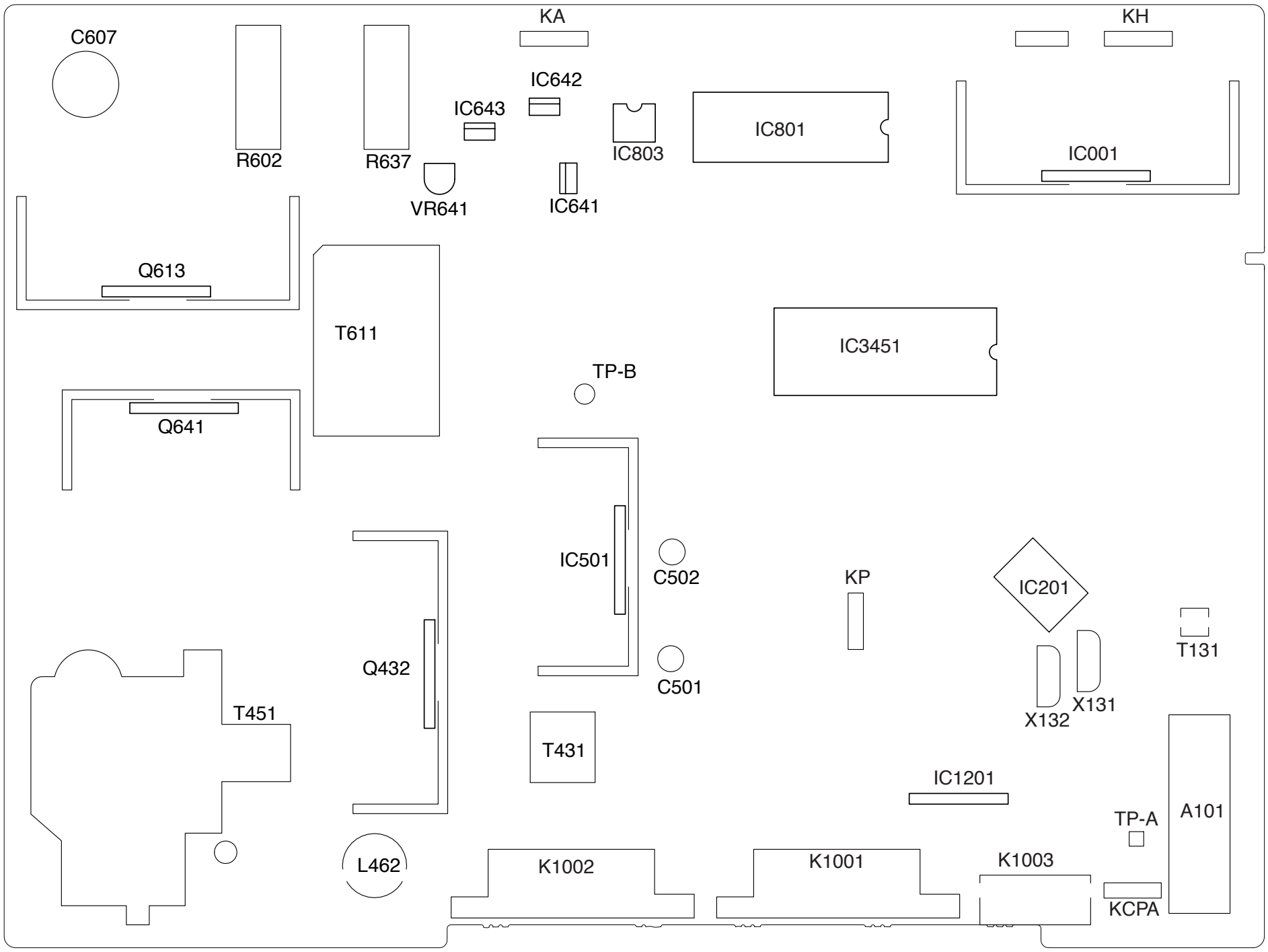
K1002
J1EK1745B
J11B0490N

K1003
J12B2821N

KQ
J10EA030N

KSC
J30B0250N

MAIN BOARD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R602
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KA
IC642
IC643
IC803
IC801
KH
IC001
VR641
IC641
Q613
T611
IC3451
TP-B
Q641
IC501
C502
KP
IC201
T131
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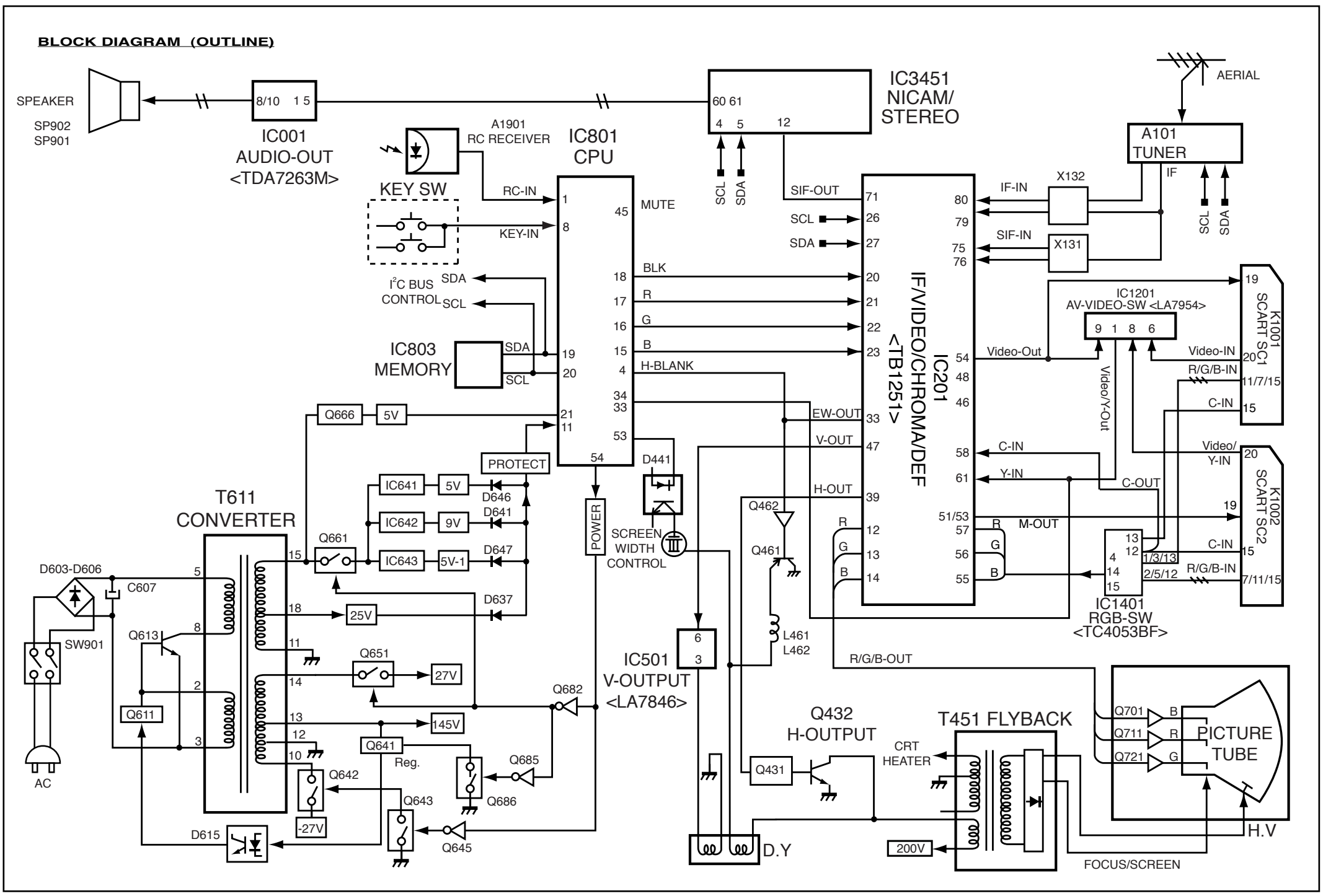
T451
T431
IC1201
TP-A
A101
L462
K1002
K1001
K1003
KCPA


BLOCK DIAGRAM (OUTLINE)
SPEAKER
SP902
SP901
8/10 1 5
IC001
AUDIO-OUT
<TDA7263M>
A1901
RC RECEIVER
KEY SW
RC-IN
KEY-IN
IC801
CPU
MUTE
BLK
R
G
B
H-BLANK
EW-OUT
V-OUT
H-OUT
I²C BUS CONTROL
SDA
SCL
IC803
MEMORY
Q666
5V
PROTECT
IC641
IC642
IC643
9V
5V-1
D646
D641
D647
D637
D441
POWER
SCREEN
WIDTH
CONTROL
T611
CONVERTER
Q661
25V
27V
145V
Q651
Q641
Reg.
Q642
Q643
Q645
Q685
Q686
Q682
-27V
D615
D603-D606
C607
SW901
AC
Q613
Q611
60 61
4 5 12
IC3451
NICAM/
STEREO
SCL
SDA
SIF-OUT
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IF/VIDEO/CHROMA/DEF
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L461
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H-OUTPUT
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R/G/B-OUT
AERIAL
A101
TUNER
IF
X132
X131
IF-IN
SIF-IN
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AV-VIDEO-SW <LA7954>
Video-Out
Video-IN
R/G/B-IN
C-IN
Video/Y-Out
Video/
Y-IN
C-OUT
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IC1401
RGB-SW
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1/3/13
2/5/12
7/11/15
11/7/15
Q701
Q711
Q721
PICTURE
TUBE
T451 FLYBACK
CRT
HEATER
200V
H.V
FOCUS/SCREEN

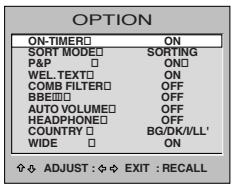
OPTION SETTING

[After replacing the Memory IC (IC803)]

The memory IC, IC803, stores the option data of TV set and service adjustments data for each circuit, therefore, when the memory IC is replaced, it should be performed following setting and “SERVICE ADJUSTMENT” on next page.

To enter to the Option Mode

+ Press and hold the **F/OK** button on the remote control and **P▼** button on the front panel of the TV. The option window will appear on the screen.



OPTION MODE FOR CE32WN5F-C-04

To set the option mode

+ Highlight the desired option item by using the **P▲** or **P▼** button .
+ To switch the option mode, use the **Volume - (LEFT)** or **Volume + (RIGHT)** button.
+ The data which is set in the option mode is stored into the memory IC automatically.

Following table shows the available option items and default setting mode.

Option Mode	Mode	Description & Note
ON-TIMER	ON or OFF	On-timer available, default “ON”
SORT MODE	SORTING or TUNING	Tuning mode, default “SORTING”
P & P	ON or OFF	Plug & Play mode, default “ON”
WEL. TEXT	ON or OFF	Display message when first set up, default “ON”
COMB FILTER	OFF or ON	For factory use, default “OFF”
BBE	ON or OFF	BBE sound mode, default “OFF”
AUTO VOLUME	ON or OFF	Default “OFF”
HEADPHONE	ON or OFF	Headphone control , default “OFF”
COUNTRY	UK, IRE BG/DK / I / LL'	TV system, default “UK”
WIDE	ON or OFF	Wide mode, default ON

Exit from the Service Mode

+ Press the **RECALL** button.

SERVICE ADJUSTMENTS

Note: Some items of the service adjustments for this chassis are controlled by the CPU, IC801, and the adjustments are carried out by using the RC handset.

[After replacing the Memory IC (IC803)]

The memory IC, IC803, stores the service adjustments data for each circuit, therefore, when the memory IC is replaced, it should be programmed by using “OPTION SETTING” on previous page and the following adjustments.

ADJUSTABLE SERVICE ADJUSTMENT

REGULAR

Item No.	OSD	Description
1	AGC	AGC Adjustment
2	--	Cut-Off Drive Adjustment
3	GRY	G-Drive Adjustment (white balance)
4	GRY	B-Drive Adjustment (white balance)
5	CTR	Contrast Adjustment (use factory setting)(for factory use)
6	--	Screen Adjustment mode
8	OSD	OSD Positioning Adjustment

IMAGE

Item No.	OSD	Description
1	P V-C	P Vertical Position Adjustment
2	P H-P	P Horizontal Position Adjustment
3	P V-L	P Vertical Linearity Adjustment
4	P VSC	P Vertical S-Correction Adjustment
5	P V-A	P Vertical Size Adjustment
6	P H-S	P Horizontal Size Adjustment
7	P E-P	P Pin Cushion Adjustment
8	P E-T	P Trapezoid Distortion Adjustment
11	P ECT	P Top Corner Correction Adjustment
12	P ECB	P Bottom Corner Correction Adjustment
13	P HPA	P Parallelogram Distortion Adjustment

IMPORTANT NOTICE
Do not attempt to adjust service adjustments not listed on the above otherwise it may cause loss of performance and product safety.

To enter to the Service Mode

+ Press and hold the **GREEN** button on the remote control and then press the **P▼** button inside of the door. Press the **P▼** button to highlight the mode required (Regular, Image, others and TB12**). Then press the F/OK button to select the mode.

The available adjustment items are as follows;

Image : This can be adjusted for picture images/shapes.
Regular : This can be adjusted for the service adjustment.
other : This is for factory setting. **DO NOT ADJUST.**
TB1251 : This is for the factory setting. **DO NOT ADJUST .**

To Select the Mode and Service Item and Change Data Value

+ Highlight the desired adjustment mode by using the **P▲** or **P▼** button and then press the **F/OK** button.
+ To select the adjustment item, use the **P▲** or **P▼** button.
+ To change the service data, use the **Volume + (LEFT)** or **Volume + (RIGHT)** button.
+ The data which is set in the service mode is stored into the memory IC automatically.

REGULAR mode

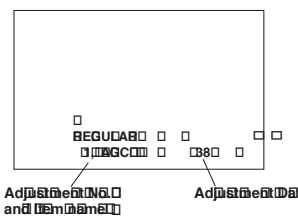
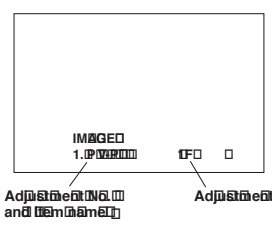


IMAGE mode



Exit from the Service Mode

+ Press the **RECALL** button or turn off the TV set by using the Mains Switch.

INITIALISATION OF MEMORY IC

To initialise the memory IC (IC803), press and hold the **NORMAL →•←** button on the remote control, then press the **P▼** button on the front panel of the TV set and then turn the Mains Switch Off and On. The initialisation is now completed.
When initialised the memory IC and all of the setting data (option data and service adjustment data) stored in the IC are reset to the default value. It is necessary to set the option settings and readjust the service adjustments listed on page 6 and to re-tune all the channels.

ADJUSTMENTS

IMPORTANT NOTICE
Do not attempt to adjust the following service adjustments except when adjustments are required in servicing otherwise it may cause loss of performance and product safety.

+ B VOLTAGE ADJUSTMENT

1. Receive white raster pattern.
2. Set controls to normal.
3. Connect digital voltmetre to test point TP-B and GND.
4. Adjust voltage to 145 ±0.5V by using VR641.

AGC ADJUSTMENT

1. Input and tune an RF signal which is UHF to the clearest station.
2. Connect digital voltmetre to test point TP-A and GND.
4. Enter to the service mode and select mode “REGULAR”, and select item no.1 “REGULAR 1, AGC”.
5. Press the **LEVEL+** or **LEVEL -** button to adjust voltage to be 3.2Vdc.

FOCUS ADJUSTMENT

By using FOCUS VR, adjust focus control for well defined scanning lines.

GREY SCALE ADJUSTMENT

SCREEN ADJUSTMENT

1. Receive black & white pattern.
2. Enter to the service mode and select mode “REGULAR”, and select item no. 2 “REGULAR 2, CUT”. The horizontal line will appear on the screen.
3. Set the SCREEN VR for one colour to be just visible.
4. Using the numeric buttons shown set each colour to minimum by decreasing to the point where any further decrease resets the adjustment to maximum value.

BIAS ADJUSTMENT

5. By using the buttons 1, 2, 4, 5, 7, 8 on the remote control, adjust the line to be white.

The key allocation is as follows;

Button No.	Operation
1	Increase Red
2	Decrease Red
4	Increase Green
5	Decrease Green
7	Increase Blue
8	Decrease Blue

CORNER ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “IMAGE”, and select item no. 11 “IMAGE 11.P ECT” for top corner adjustment OR item no. 12 “IMAGE 12.P ECB for bottom corner adjustment.
3. Press the **LEVEL+** or **LEVEL -** button to correct the distortion of the vertical line around the corners.

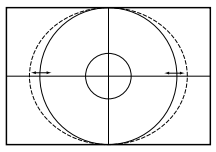
HORIZONTAL ADJUSTMENT

HORIZONTAL CENTRING ADJUSTMENT

1. Receive circular pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “IMAGE”, and select item no. 2 “IMAGE 2.P H-P”.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the horizontal centre.

HORIZONTAL WIDTH ADJUSTMENT

1. Receive circular pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “IMAGE”, and select item 6 “IMAGE 6.P H-S”.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the horizontal width.



HIGH-VOLTAGE CONFIRMATION

1. Receive circular pattern and set screen mode to “FULL”.
2. Set controls for brightness and contrast to maximum.
3. Connect high-voltage meter to the anode of CRT and GND.
4. Confirm that voltage is:
   26.5±1.0kV,1.1mA for 24” Wide model
   29.5±1.0kV,1.15mA for 28” Wide model.
   30.5±1.0kV,1.4mA for 32” Wide model.
   29.5±1.0kV,1.35mA for 28” Flat wide model.
   30.5±1.0kV,1.45mA for 32” Flat wide model.

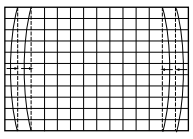
DRIVE ADJUSTMENT

6. Select item no.3 “REGULAR 3, GRY” (G-Drive) or 4 “REGULAR 4, GRY” (B-Drive) and adjust both initially to 40.
7. Change data value of each item by using **LEVEL +** or **LEVEL -** button to obtain the proper white balance.

PCC ADJUSTMENT

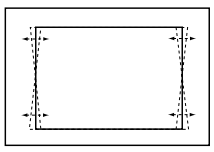
PCC ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “IMAGE”, and select item no. 7 “IMAGE 7.P E-P”.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the vertical line to be straight.



TRAPEZOID ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “IMAGE”, and select item no. 8 “IMAGE 8.P E-T”.
3. Press the **LEVEL+** or **LEVEL -** button to correct the trapezum distortion of the vertical line.



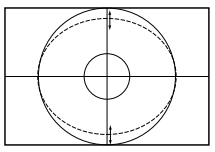
VERTICAL ADJUSTMENT

VERTICAL CENTRING ADJUSTMENT

1. Receive circular pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “IMAGE”, and select item no. 1 “IMAGE1.P V-C”.
.3 Press the **LEVEL+** or **LEVEL -** button to adjust the vertical centre.

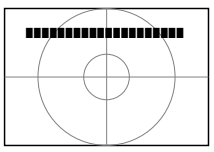
VERTICAL HEIGHT ADJUSTMENT

1. Receive circular pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “IMAGE”, and select item no. 5 “IMAGE 5.P V-A.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the vertical height.



OSD POSITIONING ADJUSTMENT

1. Receive circular pattern and set screen mode to “FULL”.
2. Enter to the service mode and select mode “REGULAR”, and select item no. 8 “REGULAR 8 OSD”. The OSD test bar will appear on the top of screen.
3. Press the **LEVEL+** or **LEVEL -** button to adjust proper OSD positioning.



CPU PORT FUNCTIONS

Pin No.	Function Name	Function	IN/OUT
1	RC IN	RC Signal Input	IN
2	RESET	Reset Input	IN
3	50/60	50/60Hz output 50Hz:H	OUT
4	H-BLK	H-Blank (on/off?)	OUT
5	V-BLK		--
6	AV-SW2	Option SW2	--
7	AV-SW1	Option SW1	--
8	KEY IN	Key switch signal input	IN
9	H-P		
10	RELAY	To operate degauss circuit	OUT
11	PROTECT	Power failure detect input “L” error	IN
12	HP-MUTE		OUT
13	BBE		OUT
14	?		OUT
15	B-OUT	Blue output	OUT
16	G-OUT	Green output	OUT
17	R-OUT	Red output	OUT
18	FB-OUT	Fast Blanking output	OUT
19	SDA	SDA	IN/OUT
20	SCL	SCL	OUT
21	VDD	Power	--
22		Not used	--
23		Not used	--
24		Not used	--
25	AVDD3	Analogue VDD of PLL	--
26	TEST0	Test	--
27	MCFM	Test	--
28			--
29	TXCF	Analogue pin for Teletext slicerline PLL	--
30			--
31	AVDD2	Analogue power supply	--
32		Not used	--
33		Video input (H.F)	IN
34		Video input (L.F.)	IN
35		Not used	--
36		Not used	--
37		Not used	--
38	PXFM	Analogue pin for the Display Pixel Frequency Multiplier	--
39	VDDA		--
40	H-SYNC	Horizontal Sync. Input	IN
41	V-SYNC	Vertical Sync. Input	IN
42	ACK	Answer for status	OUT
43	STATUS	Request for BUS open	IN
44	INGNOR	Not Used	--
45	MUTE	Sound Mute on/off switch	OUT
46	L/L	Not used	OUT
47	LED	Led drive	OUT
48	S-VHS-SW	Not used	--
49	H-PHASE	Not used	--
50	OSC	Clock oscillator	
51	OSC	Clock Oscillator	IN
52	AGC	Auto Gain Control	IN
53	P-TTAR1	Pittari Switch (Natural Wide)	OUT
54	POWER & BL	Power & Relay On/Off Control	OUT
55	8PIN (SC2)	AV2 Scart function input	IN
56	8PIN (SC1)	AV1 Scart function input	IN